CONSTRUCTION NEWS

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

ALABAMA.—The Montgomery & Chattanooga R. R. Co. has been incorporated. The company plans to build a line through the town of Anniston and counties of Elmore, Coosa, Tallapoosa, Clay, Talladega and Calhoun. The officers are: Pres., Benjamin Russell, Alexander City, and J. C. Haas, Vice-Pres., Montgomery.

ALGOMA CENTRAL & HUDSON BAY RY. AND MANITOULIN & NORTH SHORE RY.—J. D. McARTHUR, Winnipeg, Man., has received the contract for extending this line to Hudson's Bay. Contract price, $1,000,000. Noted on Dec. 29.

ARIZONA.—Surveys have been made by the Arizona, Mexico & Gulf of California R. R., from Sasco, Ariz., southwest to Port Lobos, Sonora, Mex., on the gulf of California. It is proposed to improve the harbor at Port Lobos to establish extensive port and terminal facilities there. E. H. Parker is Ch. Engr.

ATCHISON, TOPEKA & SANTA FE R. R.—Press reports are to the effect that bids soon will be called for, for the construction of a double track on the Santa Fe between Denver and Pueblo. J. M. Kurn, General Supt. of the Santa Fe, made the statement, that as soon as he had been officially notified that the Colorado & Southern and the Santa Fe had signed an agreement for the joint use of the tracks that he would then take up the double-tracking plan.

BOSTON & MAINE R. R.—Announcement has been made, according to reports, that the Mt. Washington division will be electrified. J. P. Snow, Boston, Mass., is Ch. Engr.

CANADA.—Two bills have been introduced into the Canadian House of Commons which promise to add about 2,500 miles of railway in Canada. The first bill calls for incorporating the British Columbia & Dawson Ry., with a capital of $10,000,000, and the second the Canadian Northern Branch Lines Co. The incorporators and provincial directors of the former road are Belvidere Brooks, John W. Kenrick, William C. Pratt, Jean Walkenstein, Andrew T. Sullivan, Edmund C. Harris, of New York, and James O. Clifford, of Chicago. The line is to run from Lytton, B. C., along the Fraser River to Fort George to the northern boundary of British Columbia; and thence to the city of Dawson in the Yukon Territory. Also from Ashcroft, in British Columbia, to the city of Vancouver. The total mileage will be more than 1,000 miles. The company is authorized to absorb the British Columbia & Alaska Ry. Co. The application of the Canadian Northern Branch Lines Co., which, as its name indicates, is a subsidiary of the Canadian Northern Railways Co., was for permission to construct 18 branch lines which are intended to be feeders of the main line in the prairie provinces, and will add 1,500 miles to the Canadian Northern mileage. The construction of these lines will be started as soon as weather permits. W. H. Moore, Secy. of the company, who presented the application to the committee, said the country was "railroad hungry."

CANADIAN NORTHERN RY.—Construction work, it is expected, will commence within three months on the line east from Port Arthur to Sudbury, Ont. The location of the route has been completed, and it is intended to lay steel from both ends. J. E. Schwitzer is Ch. Engr., Montreal, Que.

CHICAGO & NORTHWESTERN RY.—Press reports are to the effect that this road is contemplating a bridge across the Illinois River at Pekin, Ill. E. C. Carter, Chicago, Ill., is Ch. Engr.

CUMBERLAND VALLEY R. R.—Five grade crossings will be abolished and about five miles of second track will be built from Greasor to Newville. This work will be done by company forces.

FLORIDA.—Application has been made to the city authorities of Pensacola for a franchise by Megargel & Co., 5 Nassau St., New York, N. Y., who are interested in this road, the Gulf, Florida & Northern R. R., which is to extend from Pensacola, Fla., to Jasper, Ala., a distance of 250 miles.

FLORIDA.—The Atlantic, Okeechobee & Gulf Ry. Co. has been organized and application for incorporation will be made. The incorporators are: Daniel A. Simmons, Francis B. McGarry, the Broward Land Co., A. H. West, Walter Graham, Robert L. Riley, H. C. Ferriot, Hunter W. Raiford, J. O. McPherson, E. E. West and Mayor William S. Jordan, of Jacksonville. Hiram McElroy is Ch. Engr. This company will build a railroad from Tampa to Miami.

GRAND TRUNK RY.—It is said that this company purposes an extension from Palmer, Mass., to Providence, R. I. The surveys have been completed and work will soon begin, to be finished within two years. A new terminal is also planned in Providence, R. I. This line will be about 40 miles long. Chas. M. Hays, Montreal, Que., is Pres.

LONG ISLAND R. R.—Electricity is to be used by the Long Island R. R. between Mineola and Oyster Bay in the near future, it is asserted by officials. The company is about to begin double-tracking its line between Glen Cove and Locust Valley, and when this is completed electrification of the entire Oyster Bay branch will be taken up. J. R. Savage, Jamaica, N. Y., is Ch. Engr.

MEMPHIS, PARIS & GULF RY.—We are officially advised that 68 miles out of the 166 miles of line, from Murfreesboro to Pine Bluff, Ark., has been let to the WARE CONSTRUCTION CO., St. Louis, Mo. This company is now sub-letting the work, most of which can be done by light-wheeled scrapers. The line from Arkodelphia to Murfreesboro will be put under contract about April 1. J. H. Allen, Pine Bluff, Ark., is Ch. Engr., and E. M. Rice is Asst. Engr.

NEW YORK.—The Rochester Belt Line R. R. Co. has applied to the Public Service Commission for permission to build a belt line railway around the city of Rochester. The motive power may be either steam or electricity, and it is proposed that this line will connect all the existing railways as well as all of the manufacturing plants.

NEW YORK, ONTARIO & WESTERN RY.—The company will build about 25 miles of second track on the Scranton division this year. C. E. Knickerbocker, Middletown, N. Y., is Ch. Engr.

PENNSYLVANIA R. R.—Press advices are to the effect that this company will soon begin building a low-grade air line railroad from Pittsburg to Chicago. This line will follow the present Pittsburg, Fort Wayne & Chicago, passing through Salem, to a point near Warwick, Ohio, about 45 miles west. From this point the line will have 114 miles of straight road toward Chicago. The engineering work upon this line has been in progress for more than three years and is now practically completed. The cost of the new line is placed at above $50,000,000.

QUEBEC.—Bids will be received until Mar. 2, at 5 p. m., by J. F. Guay, for the Quebec & Saguenay Ry., for the construction of about 56 miles of line from Cap Tourmente to Murray Bay Wharf, divided up into sections of ten miles. Specifications and plans may be examined at the office of J. F. Guay, C. E., Morin Bldg., Quebec.

QUEBEC.—A contract has been awarded to the BISHOP CONSTRUCTION CO., Montreal, Que., for the building of a railroad between St. Anne de Beaupre and St. Catherine's Bay, about 160 miles.

RICHMOND, MAGOG & STANSTED R. R.—This company, it is reported, has been incorporated by the Dominion Parliament, at Ottawa, Ont., with a capital of $1,000,000. The directors include A. M. Eustis, Boston; R. H. Fletcher, G. W. Cook and C. B. Hibbard, Montreal. The line will be built from Richmond South to the United States border.

SOUTH DAKOTA.—Estimates have been received on the 82-mile line from Chamberlain to Huron. The cost is figured at $1,271,743, with rails laid. The Missouri Valley Engineering Co., Mitchell, S. Dak., is doing the preliminary work. Noted Oct. 6.

SOUTHERN RY.—The contract for double-tracking work between Franklin Junction and Galveston, Va., has been awarded to STEWART BROS. & JONES, Rockhill, S. C.

SOUTHWESTERN RY.—Application has been made to the Texas Railroad Commission for permission to issue bonds to the extent of $422,595. The funds will be used to extend the line in a southwesterly direction from Archer City. A. C. Parks, Henrietta, Tex., is Gen. Supt.

TENNESSEE.—The South Atlantic Transcontinental R. R. Co. has recently been incorporated in this state. The proposed line will extend from the coal fields of Tennessee through Knoxville, Sevierville and Waterville, Tenn., thence up the Pigeon River by way of Waynesville, Canton, Asheville, Hendersonville, Rutherfordton, Gastonia, Charlotte to Southport, N. C. MACARTHUR BROS., 11 Pine St., New York, N. Y., have been awarded the general contract, according to press reports.

TEXAS.—The town of Kerrville has raised $100,000 by subscription, which sum will be given to whoever is the first to provide a transportation outlet. Only about 28 miles of track will have to be constructed to connect the town with a point on the San Antonio & Aransas Pass R. R.

WEST VIRGINIA.—A charter has been granted to the Rowlesburg & Southern R. R. Co., to build a line along the Cheat River from Parsons, Tucker County, to Rowlesburg, Preston County. The incorporators are: W. H. Gillespie, G. G. Stitzinger, R. A. Stitzinger, A. E. Stitzinger, E. E. Stitzinger and J. E. Stitzinger, of New Castle, Pa.

ELECTRIC RAILWAYS.

FARMINGTON, ME.—A charter has been applied for by the Farmington & Augusta Ry. Co., and also the privilege to supply local towns, along the projected route, with electricity for lighting and power purposes. This line will extend from Farmington through New Sharon, Mt. Vernon, Vienna, Readfield, Manchester to Augusta.

BOSTON, MASS.—Announcement has been made through William A. Bancroft, Pres., of the Boston Elevated Ry. Co., that arrangements have been completed by this company, for the construction of a new surface line from Boston to a point near Marine Park.

GREAT BARRINGTON, MASS.—An extension is contemplated by the Berkshire St. Ry. Co., connecting Great Barrington, Huntington and Berkshire, about 30 miles. C. I. Richmond, Pittsfield, Mass., is Gen. Mgr.

NEW BEDFORD, MASS.—It is proposed to connect the mills in the north section of the city with those in the southerly portion by a surface railway to be laid mainly in the streets. William F. Williams is City Engr.

NEWPORT, R. I.—The plan to extend the tracks of the Newport St. Ry., from Morton Park to a point near Harrison Ave., is being considered. It is thought this work will be finished by early summer.

BROOKLYN, N. Y.—An application has been filed by the Brooklyn, Rapid Transit Co., asking authority to extend its line along 16th Ave., between 49th St. and 64th St.

HILLSIDE, N. Y.—An application has been made to the Board of Trustees by the Hudson River and Eastern Traction Co., for permission to construct a street railway, beginning at a point in Marble Ave., at the line between Pleasantville and of Hillside. Edgar D. McLean, Vil. Clk.

FAYETTE CITY, PA.—A line is projected, from this city to Connellsville by way of Perryopolis, by the West Penn Rys. Co. J. L. Fritsch, Connellsville, Pa., is Ch. Civil Engr.

FROSTBURG, PA.—Edwin S. Johnson, Ch. Engr., and his corps of engineers are completing preliminary surveys for the South Penn Rys. & Lt. Co., down Piney Run, for the connecting link between the Cumberland & Westernport Electric Ry., at Frostburg, with the Pennsylvania & Maryland St. Ry. at Boynton.

PITTSBURG, PA.—Preliminary surveys have been made between Butler and Slippery Rock and the route has been practically determined for a line to be built by a new company known as the Pittsburg, Butler, Slippery Rock, Grove City and Northern Ry Co. Charles Gibson, Jr., is a promoter. It is reported W. C. McCandless and John Troutman of Butler, F. L. Forrester and John Kerr of Slippery Rock and William M. Galbreath, an attorney of Pittsburg are principal directors.

SLATINGTON, PA.—The franchises are being secured for the construction of a road between Slatington and Lehighton, to connect with the Lehigh Traction Co., at Slatington and with the Carbon Transit Co., at Lehighton. The line will be twelve miles long. A bridge will be built at Lehigh Gap over the Lehigh River, the Lehigh Canal, the Central R. R. of N. J., and the Lehigh Valley R. R. The line will then extend to Palmerton, then passing through Hazard and Bowmanstown, cross the Mountain at an easy grade. It will then connect Parryville, Harrity and Weissport and terminate at Lehighton.

CHESTERTOWN, MD.—A. A. Lamkin has started the project of building an electric line from Chestertown to Tolchester; also a branch of seven miles from an intermediary point on the main line to Rock Hall, for the Kent Traction Co. The directors are Frederick G. Usilton, Wilbur W. Hubbard, J. H. Sides, J. D. Bacchus, H. M. Klemfetter, W. B. Copper and T. D. Bowers; capital stock $200,000, of which more than half has been subscribed.

HAGERSTOWN, MD.—A 40 year franchise has been granted by the Mayor and Council to Maj. L. N. Downs, of New York, and Hugh L. Kirby, of Harper's Ferry, promoters of the Hagerstown & Clearspring Electric Ry. Co., recently incorporated to construct an electric railway in Hagerstown from the western city limits to Potomac St., thence to Clearspring, about twelve miles. Noted Jan. 26.

OAKLAND, TENN.—A franchise, it is stated, has been granted to the Knoxville Railway & Light Co., to double track its line in this city. T. C. Kelly, 626 Gay St., Knoxville, Tenn., is Supt. Ry.

SHELBYVILLE, KY.—A line from Shelbyville to Mt. Eden is being promoted, it is reported, by N. B. Waugh, Shelbyville, Ky.

SOMERSET, KY.—The Somerset Water, Light & Traction Co., it is reported, will make improvements costing about $50,000. This will include an extension; also improvements to shops. J. H. Gibson, Somerset, Ky., is Pres.

CUYAHOGA FALLS, OHIO.—According to press reports the Northern Ohio Traction & Lt. Co., will double track its Cuyahoga and Newburg line and make other improvements

Contracts to be Awarded Shortly.

Contracts will be awarded shortly in various sections of the country, Canada and Mexico, for many classes of construction work. From the numerous items published in this paper in past issues, calling for bids to be opened during the next two weeks, the following are cited:

At Westfield, Mass., bids will close on Feb. 17 for furnishing and installing the wiring for the underground system of electric light and power wires; and the city of Wymore, Neb., will receive bids until Feb. 23 for the construction of an electric light and water plant.

The County Superintendent of Highways will open bids at Kingston, N. Y., on March 2 for the construction of a steel bridge across Rondout Creek, at Eddyville, Ulster County, and for the removal of the present metal structure and the enlargement of the present piers and abutments. In Ohio, the County Supervisors of Clark and Champaign Counties have set Feb. 28 as the closing date for submitting bids at Springfield for constructing a new 120-ft. bridge over the Mad River, on the county line road.

Bids for building contracts will be received not later than Feb. 18 at Oswego, N. Y., for the construction of a 4-story hotel for the Oswego Hotel Corporation, to cost $150,000; and at Washington, D. C., by the Supervising Architect, Treasury Department, until Feb. 18, Feb. 20, and Feb. 23, for the construction of a U. S. post-office and court house at Big Stone Gap, Va., North Yakima, Wash.; and Roswell, N. Mex., respectively.

The city of Dalton, Ga., is receiving bids for extensions to the water and light plant, the closing date being Feb. 23; the U. S. Reclamation Service, Bellefourche, S. Dak., is asking propositions, until Feb. 24, for the earthwork on about 22 miles of the North Canal, involving the excavation of approximately 770,000 cu. yds. of material; and on Feb. 20 the city of Madera, Cal., will open bids for a water system.

Proposals for the construction of sewers will be received until Feb. 17, Feb. 21, Feb. 23 and March 3, by the cities of St. Louis, Mo., Clinton, Ohio, Paris, Ill., Baltimore, Md., and Watertown, N. Y., respectively.

At Mineola (L. I.), N. Y., the Board of Supervisors of Nassau County will open bids for the construction and improvement of the Hempstead and Babylon Turnpike and Centennial Ave.

Bids are desired by the Board of Port Commissioners of New Orleans, La., not later than Feb. 21, for the fabrication and erection of the structural steel and cast iron for the William A. Kernaghaun shed; Maj. H. Jervey, Corps Engrs., U. S. A., Cincinnati, Ohio, will open bids on Feb. 28 for constructing four locktenders' houses at Dam No. 37, Ohio River; the closing date for bids for a crib breakwater, crib and pile pier, and concrete superstructure at Manistique Harbor, Mich., is March 1, bids to be submitted to Maj. Charles S. Bromwell, Corps. Engrs., U. S. A., Milwaukee, Wis.; and bids for the construction of about ten miles of levees and the installation of flood-gates in the Brazos Bottom, Washington County, Tex., will be opened on March 2 by the Commissioners of Washington County Improvement District No. 1, at the office of the County Judge at Brenham, Tex.

In Canada, the city of Strathcona will open bids on March 1 for engines, boilers and generators; bids for apartment blocks for Beveridge Bros. and O. G. Devenast, respectively, will close on Feb. 18; and at Victoria, B. C., propositions for furnishing gate valves may be submitted to the City Purchasing Agent until March 3.

In Mexico, bids for the construction of a gas plant will close on March 1.

costing in all about $600,000. Work will probably begin in the spring. R. Trumbull, Hamilton Bldg., Akron, Ohio, is Ch. Engr.

DANVILLE, IND.—Hoover Holton, Asst. Gen. Mgr., of the Capital Circuit Traction Co., announces that bids will be received, for the grading of a line from this city to Lebanon.

COLLINSVILLE, ILL.—Preliminary surveys for the St. Louis and Eastern Traction Co., proposed from Collinsville to Troy, and later toward the eastern line of Ill., have been completed by Shepard & Morgan of Edwardsville, and maps of the routes are being prepared. The line will include about five miles of track in this city, and under present plans will extend from Collinsville to Greenville about 40 miles. The line is being promoted by A. W. Crawford of Hillsboro, who has practically closed deals for right of way for two-thirds of the distance between Collinsville and Troy.

JOLIET, ILL.—The Chicago, Ottawa & Peoria Ry. Co., which is part of the Illinois Traction System, will have matters in shape within a few weeks to let contracts for grading, and concrete and bridge construction work on their 23-mile extension from Morris to Joliet. There will also be erected two sub-stations. F. E. Fisher, Joliet, Illinois, Supt. of Constr., is in charge of the work.

YORKVILLE, ILL.—Preliminary arrangements for the extension of the lines of the Aurora, Elgin & Chicago R. R. Co., from Yorkville, to Plano, Sandwich and Somonauk, have been completed. Residents of Earlville and Mendota also want interurban transportation with Aurora and Chicago, and the company is contemplating the extension of its lines to those points in the near future it is reported.

ST. PETER, MINN.—An electric railway is contemplated to connect this place with Mankato. H. E. Hance, Mankato, Minn., is a promoter.

ST. LOUIS, MO.—The St. Louis, Arcadia & Jefferson City R. R., it is stated will apply for a franchise through its representatives E. A. Hildenbrandt, C. F. Vogel and T. G. Portis to build an electric railway from Grand and Wyoming Aves. to the western city limits at Bancroft Ave.

LOS ANGELES, CAL.—The Los Angeles Ry. Co., has asked permission to convert the Old Santa Monica steam road into an electric line. The line extends from Clemente Junction, at 38th and Alameda Sts., west across the city to Santa Monica, about 18 miles.

BEAUFORT, QUE.—The Quebec Ry, Lt. & Power Co., expect to build a line between this city and Montmorency Falls, about six miles. E. A. Evans, 101 Johns St., Que., is Ch. Engr.

MONTREAL, QUE.—It is reported that a syndicate has been formed for the purpose of constructing an elevated railway 14 miles long, extending along Craig St., and St. James St., from the western to the extreme eastern limits of this city; also a branch through St. Lawrence, Main or St. Denis Sts.

GUELPH, ONT.—The Street Ry. Comn. is receiving bids for the construction of the new branch line into St. Patrick's ward, to be completed by the spring.

LIGHT AND POWER PLANTS.

BOSTON, MASS.—An electric lighting plant, to cost $12,000, is planned by the School Committee for the lighting of four school buildings at the North End. David A. Ellis is Chn. School Com.

Bids will be received by Louis K. Rourke, Comr. of Public Wks., until March 4, for lighting equipment to be installed upon lampposts to be furnished by the city on such streets, parks and alleys as may be designated by the city, installation to commence on May 1, 1911, and to be completed by Aug. 1, 1911, and giving bond therefor of a surety company approved by the commissioner in the sum of $25,000 for work to be done under items A, B, C and D, to secure the due performance of the contract and the full protection of the city. Bids are to be based on furnishing and installing approximately 11,000 lamps, distributed in such separate districts as may be determined by the city, as follows

A. To furnish and install approximately 11,000 gas lamps with incandescent mantle burners.

B. To furnish and install approximately 11,000 gas lamps with incandescent mantle burners and automatic lighting and extinguishing devices.

C. To furnish and install approximately 11,000 gas lamps with inverted incandescent mantle burners and necessary post extensions similar in design to sample submitted by the city.

D. To furnish all necessary repairs and additional parts of apparatus that may be required to maintain a proper installation of the lighting service.

Samples of the equipment to be furnished under the bid must be submitted with the same.

Bids will be received until March 4 for lighting such streets, parks and alleys as may from time to time be designated by the city for a period of ten years from May 1, 1911, and giving bond therefor of a surety company approved by the commissioner in the sum of $50,000 to secure the due performance of the contract and the full protection of the city. Forms of bids and specifications may be obtained at said office of the Commissioner of Public Works. Bids are to be based on furnishing, maintaining and operating approximately eleven thousand (11,000) gas lamps with incandescent mantle burners, the lamps to be distributed in such separate districts as may be determined by the city as follows (A) Lamps to be lit and extinguished either in whole or in part by hand or by any automatic device the contractor may install. (B) Lamps to be lit and extinguished by hand, with a provision for installation at some future time of automatic devices for lighting and extinguishing the lamps in whole or in part. The specifications under both items are identical with the exception that article (3) of said specifications does not apply to Item A, but does apply to Item B. If a bid is accepted under Item A, article (3) of specifications shall be canceled. The bid to include the maintenance and operation of approximately 210 fire-alarm signal lamps. The city will furnish the lampposts. Bidders are to state a price for furnishing, maintaining and operating each lamp per annum. Samples of the equipment to be furnished under the bid must be submitted with the same. Louis K. Rourke is Comr. of Public Wks.

BROOKLYN, N. Y.—Bids will be received until Feb. 21 by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for furnishing at the navy yard, Brooklyn, N. Y., the following supplies: Schedule 393—80 feeder junction boxes, 22,000 ft. interior communication cable, 20,000 ft. telephone cord, 100,000 ft. bell wire, 35,000 ft. single-conductor wire, 155,000 ft. twin-conductor wire.

CORAOPOLIS, PA.—See item under Water Supply—Irrigation.

WILKES-BARRE, PA.—The Wilkes-Barre R. R. Co. expects to purchase one 1,500-KW. low-pressure turbine, two 300-KW. rotary converters and condensing outfit, one 750-KW. motor-generator set, four 500-KW. rotary converters; also 20 new cars. Thomas A. Wright is Gen. Mgr.

BALTIMORE, MD.—Plans are being prepared by the American Tobacco Co. for the construction of a power house, at Boston and Patuxent Sts., Baltimore. Painter & Posey are the Engrs.

PARKERSBURG, W. VA.—Bids will be received until 8 p. m., Feb. 28, at the office of County Auditor for the furnishing and installing an electric light plant for use in connection with the construction of a new water-supply system for Parkersburg. C. P. Morrison is Pres.

MURPHY, N. C.—A company has been organized to construct a hydroelectric power plant here. George A. Browning is interested.

WILMINGTON, N. C.—It is reported that the Tidewater Power Co. will soon be in the market for a boiler, one 500-KW. rotary converter and two 200-KW. transformers. A. B. Skelding, Wilmington, N. C., is Pur. Agt.

RICHMOND, KY.—The Richmond Electric & Power Co. has authorized bonds for $50,000, $30,000 of which will be used to raise present mortgage, and $20,000 will be used for various improvements to the plant.

CLEVELAND, OHIO.—The Cleveland Electric Illuminating Co. has awarded contracts to the NATIONAL CONCRETE FIREPROOFING CO. for general work on the superstructure of its new power house on East 70th st., and to T. H. BROOKS & CO. for structural steel work.

COLUMBUS, OHIO.—Richards, McCarty & Bulford have awarded the contract for the electrical work on the Hartman theatre, at Third and State Sts., to the AVERY-LOEB CO., at $25,000.

VANDALIA, MICH.—The Milling & Power Co., Cassopolis, Mich., has been granted a franchise for a period of 30 years to supply electric power in Vandalia for lamps and motors. A contract for street lighting for a term of ten years will be awarded. About 40 street series tungsten lamps will be installed.

MT. CARMEL, ILL.—Plans are being considered for the erection of a power plant at the Grand Rapids dam. It is estimated that over 3,500 HP. can be developed. The plans call for the installation of a steam auxiliary plant to provide power in case of emergencies. G. E. K. Hixson, Harrisburg, Ill., is interested.

STOUGHTON, WIS.—Knut Guelson, Supt. Municipal Electric Light Plant, has made an estimate of $6,000 as the fund necessary to provide new equipment at the auxiliary plant purchased by the city, the former flour mill water power. The primary source of power is the mill dam and steam will be used for emergencies and as auxiliary.

KEOKUK, IOWA.—Bids will be received until March 7 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for a conduit and wiring system, gas piping, etc., at the U. S. court house, post-office, etc., at Keokuk. Drawings and specifications may be had at the office of the custodian at Keokuk, at the discretion of the Superv. Arch.

ROCHESTER, MINN.—Plans for moving the municipal electric light plant nearer the river and installing a system of cluster lamps are being considered. Plans have been prepared by Earl Jackson, St. Paul, Minn.

RAPID CITY, S. DAK.—The Westinghouse Electric & Mfg. Co., of Pittsburg, Pa., has awarded a contract to the DAKOTA POWER CO., of Rapid City, for supplying electricity from its hydroelectric power plant at Pactola to operate the machinery at the four mica mines, near Custer, S. Dak., owned by the Westinghouse Co.

KANSAS CITY, MO.—Specifications are being prepared for the construction of a steel gas tank of 5,000,000 cu. ft. capacity at the northeast corner of 20th St. and Indiana Ave.

HAZEN, ARK.—The Hazen Power & Light Co. has awarded the contract for the construction of a power house to D. S. PROCTOR, of Hazen, at $5,000.

GEORGETOWN, TEX.—See item under Water Supply-Irrigation.

SNYDER, OKLA.—See item under Water Supply-Irrigation.

SEATTLE, WASH.—The contract has been awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., by the Perine Machinery Co., of Seattle, for four alternating current induction type CCL motors, to be used in operating exhauster fans for removing chips, shavings, sawdust, etc., from the joiner and boat shops at the Puget Sound Navy Yard, Bremerton, Wash. The four motors will have capacities of 10, 15, 50 and 75 HP. The work in connection with the installation of the motor-driven fans will be done under the supervision of the Bureau of Construction and Repair, Navy Department.

BOISE, IDAHO.—The Idaho-Oregon Light & Power Co. is preparing plans, it is reported, for making extensions to its Ox Bow tunnel power plant, to cost about $4,000,000, including the extension of the present transmission lines and erection of new lines into other territory and the construction of additional substations. J. G. WHITE & CO., New York, have the contract for the present development. Sinclair Mainland is Secy. and Treas., Oshkosh, Wis.

CALDWELL, IDAHO.—The Gem Irrigation District has awarded the contract for a pumping plant for pumping water for irrigating 29,500 acres in Owyhee County, south of the Snake River, to F. W. SHEFFIELD, of Spokane, Wash., at $864,000. Electricity for operating the system will be generated at the Thousand Springs and transmitted to the pumping station, which will be erected on the Snake River, a distance of 120 miles.

OGDEN, UTAH.—The City Council has granted a franchise to A. L. Brewer, J. B. Lewes, Joseph Scowcraft, J. N. Sprague and A. T. Wright to construct and operate an electric power plant and supply electricity for lamps, heat and motors here.

TROUTSDALE, ORE.—James McBride & Co. have submitted the lowest of 13 bids for the construction of the main building and power station at the new county poor farm, near here, at $70,647.

FORT MASON, CAL.—Bids for constructing an addition to the power house and installing pumping machinery at the U. S. army general hospital, Presidio of San Francisco, Cal., will be received by Maj. George McK. Williamson, Q. M., U. S. A., Fort Mason, until 11 a. m., Mar. 1.

LONG BEACH, CAL.—The Southern California Edison Co. has awarded a contract to CHARLES C. MOORE & CO., 321 Trust Building, Los Angeles, Cal., for furnishing all labor and material for installing piping connections for the operation of all turbines, boilers, pumps, etc., at the company's plant here, at $39,000.

MERCED, CAL.—The San Joaquin Light & Power Co. is preparing to make improvements to its gas system here, which will include the erection of a new gas holder, to cost about $25,000.

SACRAMENTO, CAL.—The Pacific Gas & Electric Co. will make improvements to its property here, to cost about $1,000,000. They will include the erection of a new steam-power generating plant, improvements to the railway system, additions to the gas plants, etc. The cost of the steam-power plant is estimated at $500,000, and will provide an output of 15,000 HP. John A. Britton is Vice-Pres. and Gen. Mgr.

NORTH TORONTO, ONT.—Bids will be received by W. C. Norman, Town Clk., Eglinton, Ont., until Feb. 16, for supplying about 1,000 30-ft., 100 35-ft., and 50 40-ft. cedar poles for an electric light line in the town of North Toronto. Specifications may be seen at the office of the Town Clerk at Eglinton.

WINNIPEG, MAN.—The Winnipeg Electric Ry. Co. has awarded to the CANADIAN GENERAL ELECTRIC CO., of Toronto, Ont., a contract for the equipment of its new generating station, for four units of 3,000 KW., each driven by Curtis turbines. W. Phillips is Mgr.

WINNIPEG, MAN.—Bids will be received until Feb. 22 by Magnus Peterson, Secy. Bd. of Control, for all the conduit work to be done this year. It is proposed to place all wires in the city underground in time. Estimated cost, $650,000. Specifications may be seen at the office of F. E. Cambridge, City Elecn.

Smith, Kerry & Chace, Consult. Engrs., of Toronto, Ont., and Winnipeg, have estimated that additional machinery required for the civic power plant now being constructed at Point du Bois for the completion of the development will cost $980,000.

VANCOUVER, B. C.—The Vancouver Gas Co. is planning to increase its equipment by the construction of a large gas holder, with a capacity of 2,000,000 cu. ft. The contract for steel has been let to ASHMORE, BENSON, PEASE & CO., of Stockton, England. The excavation and concrete work will be awarded shortly.

CALGARY, ALTA.—Bids will be received by the City Commissioners until Feb. 20, for about 200 5-light ornamental lamp posts to be delivered in carload lots, as required, all bidders to submit their designs, together with full dimensions, weights, etc. Globes are to be of light alabaster. Each post must be equipped with standard Edison sockets, all complete and ready for wiring up. Tenderer will also submit prices on extra globes which might be required. Tungsten lamps will be supplied by the city.

BRIDGES.

BOSTON, MASS.—The bill for the Harvard Stadium Bridge, between Boston and Cambridge, has passed the State Senate. Several plans have been drawn, but no definite plan has been accepted. John R. Rablin is Ch. Engr. Metropolitan Park Comn., which will probably build the bridge.

Bids for building the draw span, pile bridge, etc., of the Meridian St. bridge, over Chelsea Creek, will be received until Feb. 28 by Louis K. Rourke, Comr. of Pub. Wks.

PROVIDENCE, R. I.—The New York, New Haven & Hartford R. R. will probably soon receive bids for the construction of the proposed bridge over the tracks at South Park. Edward Gagel, of New Haven, Conn., is Ch. Engr. of Bridges.

CLYDE, N. Y.—The town is considering the construction of a bridge to cover the New York Central and West Shore tracks. Estimated cost, $300,000.

NEW YORK, N. Y.—Preliminary plans have been prepared by the Department of Bridges for the proposed bridge across the Harlem River. It will be about midway between Washington Bridge and the Fordham Heights Bridge at 207th St., and will afford quick transit to the West Bronx by way of the [illegible]way. The cost of the improvement is [illegible]timated at $1,200,000.

ROME, N. Y.—The Common [illegible]ncil is considering the construction of a [illegible]ridge over Black River Canal at Dominick [illegible] and the removal of Lock 1, so as to bu[illegible] the bridge on grade.

WHITE PLAINS, N. Y.—Bid[illegible] will be received by E. A. Forsyth, Chn[illegible] of Supervisors, until 10 a. m., Mar. 6, [illegible]rebuilding two bridges between Yonkers [illegible] Y., and East Chester, N. Y., the cost [illegible] to exceed $10,000 each.

CAMDEN, N. J.—Plans for a [illegible] bridge to be built over the Delaware [illegible], above Trenton, are being prepared by [illegible] engineers of the Philadelphia & Readi[illegible] It is intended to replace the b[illegible] which crosses the river at Yardley.

PHILADELPHIA, PA.—Bids w[illegible] soon be asked for widening the Chestnu[illegible] bridge over the Schuylkill River. Ther[illegible] $90,000 available for this work.

READING, PA.—The Reading [illegible] Columbia Ry. Co. has awarded a contr[illegible] to L. H. FOCHT & SON, of Reading, for [illegible] erection of two bridges, one at Shreine[illegible] and the other near Ephrata. The piers [illegible] be of concrete, and the girders 150 ft [illegible]

SLATINGTON, PA.—See items [illegible] Electric Railways.

WILKES-BARRE, PA.—We are [illegible]ficially advised that preliminary plans are [illegible] prepared by Torrance & Taylor, Co[illegible] Civil Engrs., 39 Cortlandt St., New Yo[illegible] for the proposed reconstruction of the Sou[illegible] viaduct over the Pennsylvania R. R. [illegible] and tracks. The viaduct will ext[illegible] from Washington St. to Park Ave., and [illegible] be of reinforced concrete and structural [illegible] T. L. Welles, Coal Exchange Bldg., Wilkes-Barre, is Chn. of Special Bridge C[illegible] and B. K. Finch is City Engr.

DANVILLE, VA.—Bids will be re[illegible]ved by J. O. Wayman, City Engr., until Ma[illegible] for constructing the superstructure of a bridge. The estimated cost is $40,000.

PETERSBURG, VA.—A contract has been awarded to the ROANOKE BRIDGE CO., of Roanoke, Va., for constructing a viaduct across the Valley of Lieutenant Run. The structure will be of steel and concrete, [illegible] ft. long, and will cost $41,000.

RICHMOND, VA.—The contract for constructing a steel bridge across the James River, connecting Westhampton with Chesterfield County, has been awarded to the VIRGINIA BRIDGE & IRON CO., of Roanoke, Va., at $50,000. The structure will be 950 ft. long and 20 ft. wide, 26 ft. above mean low water, 17 ft. above bank, and [illegible] above high-water mark.

RICHMOND, VA.—The Southampton Bridge Co. has been formed and granted a charter by the State Corporation Commission to build a concrete or steel bridge, 20 ft. wide and 950 ft. long, at a point not less than three miles from the city of Richmond, nor more than 1½ miles from the Country Club. Thomas S. Winston is Pres., and Oliver J. Sands, Secy. and Treas.

SPOTTSYLVANIA, VA.—The Board of Public Roads, W. A. Harris, Secy., will open bids, about Mar. 6, for the construction of four steel bridges, with concrete head walls. A. F. Brown, Fredericksburg Va., is Engr. in charge.

FAIRMONT, W. VA.—The Baltimore & Ohio R. R. has asked permission of the War Department to construct a double-track bridge over the Monongahela River, at Gaston Junction, near Fairmont. A. W. Thompson, of Baltimore, Md., is Ch. Engr. of Bridges.

PORT CLINTON, OHIO.—Bids will be received until Mar. 6, by the Ottawa County Commissioners for the construction of a draw-bridge. W. H. Mylander is County Audr.

BRAZIL, IND.—The Commissioners of Clay County are considering the building of a new bridge over Connelly Creek, in Harrison Township. The present bridge has been condemned.

ELKHART, IND.—The County Commissioners will soon ask for bids for the construction of two bridges in Elkhart City. D. O. Batchelor is County Audr.

JANESVILLE, WIS.—Bids will be received by the Street Assessment Committee, W. F. Carle, Chn., until 2 p. m., Mar. 7, for the construction of two plate girder bridges over Rock River, one 384 ft. long at Fourth Ave., and one 264 ft. long at Racine St. C. V. Kerch is City Engr.

MARINETTE, WIS.—Plans have been adopted for the construction of a bridge over the Menominee River. The structure will be of steel with a concrete floor, and is estimated at $25,000.

SUPERIOR, WIS.—The following bids have been received by the Board of Public Works for constructing the fill and the wooden bridge over the Nemadji River, at East Fourth St.: Edward Gallagher, $42,500; E. A. Dahl & Co., $44,490; John Shea and William Walsh, $42,000; Barnett & Record, $41,475; INTERSTATE DREDGE & DOCK CO. (awarded contract), $41,840.

ST. CLOUD, MINN.—We are officially advised that the contract for bridge work on the St. Germain St. bridge, was awarded on Feb. 6 to THOMAS E. MOLLEY, of La Crosse, Wis., at $7,500. Noted on Jan. 5.

YANKTON, S. DAK.—Bids will be received by John W. Summers, County Audr., until 7.30 p. m., Feb. 27, for constructing a steel reinforced-concrete bridge over Rhine Creek.

KANSAS CITY, MO.—We are officially advised that contracts were awarded as follows on Jan. 30 for the construction of two bridges: Reinforced-concrete arch bridge over the Blue River at 15th St., containing approximately 3,600 cu. yds. of concrete, 300,000 lbs. of steel and 1,200 sq. yds. of creosoted block pavement, to the WILLIAM P. CARMICHAEL CO., of St. Louis, Mo., at $60,000; a reinforced-concrete arch bridge over Brush Creek at Cleveland Ave., containing 900 cu. yds. of concrete, 80,000

lbs. of metal and 500 sq. yds. of creosoted block pavement, to the H. B. THOMPSON CO., of San Antonio, Tex., at $14,000. Noted on Jan. 12.

CLINTON, ARK.—A contract will be awarded on Mar. 15, for constructing a steel bridge with two spans of 110 ft.; one 45-ft. and one 60-ft. approach; tile piers in cement; 12-ft. roadway. Plans and specifications are on file with J. W. Snead, Clk., of Van Buren County.

SPOKANE, WASH.—Official advices are to the effect that bids were received as follows on Feb. 8, for the construction of the Latah Creek Bridge at Chestnut St., as follows: C. F. Graff, Crary Bldg., Seattle, Wash., $42,-; C. J. E. Cunningham, 318 Augusta Ave., Spokane, $43,900; R. H. Stratton, 1507 Fourth Ave., Spokane, $44,850; Spokane Concrete Co., Spokane, $46,027; Alverson & Koeper, Peyton Bldg., Spokane, $48,489; Boynton, Leach & McCoy, 1618 Eleventh Ave., Spokane, $52,000; International Contract Co., Central Bldg., Seattle, Wash., $53,320.

SPOKANE, WASH.—We are officially advised that the city is considering the construction of a concrete bridge to cost $400,-. The date for receiving bids has not been fixed. Morton MacCartney is City Engr., and C. A. Fleming is City Clk.

WALLA WALLA, WASH.—E. B. Shipley, City Engr., has completed plans for the proposed Third St. bridge over Mill Creek. The structure will be 100 ft. long, of reinforced concrete, and will cost $11,000.

SAN JOSE, CAL.—Bids will be received by the Board of Supervisors until 11 a. m., Feb. 20, for constructing a reinforced concrete bridge over Los Gatos Creek at Meridian Road.

LANARK, ONT.—Bids will be received by J. Boyd Caldwell, Chn. Roads and Bridges Comm., until 6 p. m., March 4, for the erection of a reinforced concrete, single-span bridge, 70 ft. long, over the Clyde River at a point about three miles north of Lanark Village.

OTTAWA, ONT.—The Grand Trunk Ry. will erect a new swing bridge across the Rideau Canal, to cost $30,000. M. Donaldson is Supt., at Ottawa.

DAUPHIN, MAN.—Bids will be received by J. W. Johnston, Town Clk., until 8 p. m., Feb. 25, for all labor and material necessary for the construction of two reinforced concrete highway bridges to be constructed in the Town of Dauphin. Plans and specifications are on file at the Town Clerk's office, Dauphin, Man., and at Provincial Public Department, Winnipeg, Man. A. H. F. Steick is Chn. Pub. Wks. Com.

CALGARY, ALTA.—The City has decided to erect two steel bridges this year, at a cost of $55,000.

RED DEER, ALTA.—JACKSON & GOLDIE, Winnipeg, Man., have been awarded the contract for constructing the Alberta Central R. R. bridge over the Red River. It will be a steel structure 2,192 ft. long and 120 ft. high.

BUILDINGS.

BOSTON, MASS.—A city institution building is proposed at Rainsford Island, Chas. P. Putnam, M. D., is Chn. Bd. of Trustees.

The contract for the new Young Men's Christian Association Building has been awarded to WILLIAM CRANE. The structure is 57 x 146 ft., and was designed by Clinton J. Warren.

The plans for the City Hall extension have now been definitely formulated and an appropriation of $800,000 asked for. The plan calls for the demolition of the old Court House, and the erection of an 11-story building on its site, with an arch connecting it with the present City Hall. Manus J. Fish is Supt. Public Bldgs.

*FORT ANDREWS, MASS.—Bids will be received by Capt. A. M. Miller, Q. M., U. S. A., 263 Summer St., Boston, Mass., until 1 p. m., March 15, for the construction, plumbing, heating, electric wiring and fixtures of various buildings at Fort Andrews. For details, see advertisement in this issue.

HARTFORD, CONN.—Plans have been prepared by the Heublein Hotel Co. for the erection of a 14-story hotel building to replace the structure which now stands on Wells St. The plans call for an investment of about $1,000,000. The hotel will contain 400 sleeping rooms and dining facilities for 1,000. The architect in charge of the work will be A. Raymond Ellis of this city. The new building will occupy the entire block between Gold and Mulberry Sts. To finance the new enterprise, it is understood that the capital stock of the present company will be increased and Hartford and New York capital will be interested.

Plans also are in prospect for remodelling and enlarging the Allyn House on Asylum St. In fact two plans are being considered, one of which contemplates entirely new structure to cost approximately $1,000,000, while the alternate plan involves the construction of an annex to cost about $500,000.

John A. Pilgard, proprietor of the Union Grocery, has had plans prepared by George Zunner, Arch., for a fireproof building, 7-stories high, at 1026-1036 Main St. The plans call for a building, 67 x 85 ft. The construction will be steel case with hollow tile concrete.

The old City Hotel property at Main and Gold Sts., has been purchased by Pasquale M. and Salvator D'Esopo, and plans are in progress for the construction of an 8-story building. It is claimed that the building will be devoted to office purposes.

The City of Hartford has accepted the plans of Davis & Brooks, Archs., of this city for the proposed new municipal building to be erected at corner of Main and Arch Sts. It will be of colonial design, 104 x 244 ft. Palmer & Hornbostel of New York are associate architects and John M. Carrere is consulting Arch.

A. Raymond Ellis, Arch., is preparing plans for a hotel building to replace the present Heublein Hotel at corner of Wells and Mulberry Sts. The new building will be 110 x 125 ft., 14-stories high, of fireproof construction with steel frame and brick front with limestone trim and will have all the latest improvements known to hotel construction. G. F. Heublein is forming a new company to control the project.

NEW HAVEN, CONN.—THE ABERTHAW CONSTRUCTION CO., has been awarded the contract for a 3-story reinforced concrete store house, 100 x 120 ft., for the Winchester Repeating Arms Co. The plans were drawn by L. W. Robinson, Arch., New Haven.

L. W. Robinson, Arch., is preparing plans for an 8-story brick and steel office building at corner of Church and Crown Sts. for the First National Bank.

BUFFALO, N. Y.—The Larkin Co. has prepared plans for the construction of a 10-story freight warehouse, 100 x 520 ft., fireproof, and of brick and steel construction, to be erected at Correll Exchange and Kensselaer Sts. The estimated cost is $750,000.

Franklin B. Ware, State Arch., Albany, has completed tentative plans for the state normal school to be erected in Albany. The building will contain an auditorium, class rooms, vocational training department and gymnasium. There will also be an administration building and a power plant. Estimated cost is $400,000.

Esenwein & Johnson, Archs., have prepared plans for the construction of a 20-story office building for the Buffalo General Electric Co., at Genessee, Washington and Huron Sts. Cost will approximate $500,000. Site purchased has been cleared and prepared for improvement.

T. Morton Wolfe, Arch., 638 Ellicott Square Bldg., has completed plans for a 2-story and basement brick and structural iron building and a 50-stall stable, 75 x 150 ft., at Oak and Sycamore Sts., for the Brunner Baking Co., 203 Oak St.

Plans are being prepared for the construction of four public school buildings to be erected by the city during the coming summer. School No. 13 to have a 16-room addition at Oak and Genessee Sts. George Metzger, 19 West Huron St., is Arch. No. 28 to have a 16-room addition at Triangle St. and Abbott Road, Thomas W. Hains, 1 Erie County Bank Bldg., is Arch. No. 57 to have a 16-room addition, at Broadway and Sears St., Schmill & Gould, Prudential Bldg., are the Archs. Also a 12-room addition to No. 6 at Perry and Mississippi Sts. W. H. Zawadski, Fillmore St., is the Arch. All the additions will be of brick, stone and steel construction.

The German Deaconess Hospital Society of Buffalo has decided to build a new hospital adjoining its old building on Kingsley St., at a cost of $115,000. The building will be of fireproof construction, 46 x 190 ft., of white brick with white cast and stone trimmings. Will have electrical and refrigerating plant. Henry W. Simon, Chn. Finance Com.

CANANDAIGUA, N. Y.—James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., has awarded contract for the construction of a post-office at Canandaigua, N. Y. to the KING LUMBER CO., Charlottesville, Va., at $60,017.

MIDDLEPORT, N. Y.—The Middleport Lodge of the Independent Order of Odd Fellows is having plans prepared for a temple building on a site on Main St., three stories in height, brick and steel construction, to contain three stores, a theater, lodge rooms and offices.

NEW YORK, N. Y.—The HAY FOUNDRY & IRON WORKS has been awarded the contract, 1,700 tons of steel necessary for the new Browning building at 141-145 West 36th St., from plans by Buchman & Fox, 11 East 59th St.

The contract has been awarded to CHAS. T. WILLIS, 286 Fifth Ave., for the construction of a 2-story building for the Provident Loan Society, 344 Fourth Ave., at 124th St. and Lexington Ave. Plans have been prepared by Renwick, Aspinwall & Tucker, 320 Fifth Ave. The cost is $45,000.

The contract for the construction of the building at 633 Second Ave. has been awarded to J. SCHLESINGER, 110 West 34th St. Plans were prepared by Max Muller, 115 Nassau St.

New York Chamber of Commerce has given its approval to the Seamen's Church Institute's plan to construct a 12-story building for merchant sailors on the East River front. More than $750,000 has already been subscribed.

NEW YORK, N. Y.—Bids will be received by the Pres. of the Board of Trustees, Staff Room, Bellevue Hospital, until Feb. 24, for providing all the labor and materials necessary or required for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, painting, glazing, hardware and all other work for the alteration, repair, construction and completion of the enlargement and enclosure of six balconies, Fordham Hospital, Crotona Ave. and the Southern Boulevard, Boro. of the Bronx, New York.

POUGHKEEPSIE, N. Y.—The Board of Health has awarded the contract for tuberculosis hospital to the TORRINGTON BUILDING CO., at $37,905. Only other bid was by the Peter Keeler Construction Co., $38,432.

SYRACUSE, N. Y.—Dey Bros. & Co. have decided to increase capital to $1,000,000, from $700,000, to make possible erection of an addition which they intend to build on their drygoods store, South Salina and Jefferson Sts. How large addition will be not decided yet.

JERSEY CITY, N. J.—Plans have been prepared by George W. Van Arx, 15 Exchange Pl., for the erection of a 5-story apartment building. The estimated cost is about $70,-000. John Swenson is owner.

NEWARK, N. J.—Mr. Joseph Hensler is having plans prepared by Bruce P. Kitchell, Newark, N. J., for the erection of a 12-story office building at the south east corner of Halsey St. and Market St. The building will be 110 ft. deep and 155 ft. high. The building will be constructed of granite; the English Gothic style of architecture will be used. The building will be constructed as near fireproof as possible with a slate and tile roof. The estimated cost is $375,000. The work will commence at the earliest possible moment.

PHILADELPHIA, PA.—E. Allen Wilson, 1208 Chestnut St., is preparing plans for the erection of apartment buildings at 50th and Pine Sts. The estimated cost is about $60,000.

A. E. Westover, Keith Bldg., is preparing plans for the construction of a theater at Eleventh St., south of Lehigh Ave. The building will be of brick and steel construction, 80 x 100 ft., and one story high. The estimated cost is about $75,000.

ERIE, PA.—The trustees of the St. John Kanty College Association have decided to go ahead and award contracts for the construction of the college building to be erected on a site one mile south of Westleyville. The estimated cost is $100,000. Francis Nagosky, Esq., is Secy.

PITTSBURG, PA.—Bids will be received until 3 p. m., Feb. 27, for the erection and completion of the Academic and Scheuley District High School building to be erected by the Central Board of Education, on the corner of Forbes & Boundary Sts. F. J. Osterling, Commonwealth Building, Fourth Ave., Pittsburg, Pa., is the Arch.

WILKES-BARRE, PA.—Bids will be received until noon, Feb. 24, at the Clerk's office, for furnishing all labor and materials and completing the Police Station House at the corner of State St. and Merchants' Lane. Edward Eyerman is Chn.

BALTIMORE, MD.—The contract has been awarded to J. J. O'CONNOR by John C. Hemmeter for the construction of a brick, stone and concrete residence at University Parkway and Kittery Lane. The estimated cost is $50,000. R. C. Uelrich, Gunther Bldg., is Arch.

According to Edward D. Preston, Building Inspector, specifications for the new $200,000 improvements to the Polytechnic Institute on North Ave., near Calvert St., will be sent to bidders soon. Plans for the improvements have been prepared and bids will be received until Feb. 27.

The Baltimore Steam Packet Co., John R. Sherwood, Pres. and Gen. Mgr., Light and Barre Sts., has awarded the contract to JOHN HILTZ & SON for rebuilding the burned pier at Light St. If Building Inspector requires it, a new building will be constructed of steel, frame and concrete and will cost $100,000. If not, the structure will be semi-fireproof, covered with copper. The new structure will be a few feet longer than the old, and a central figure will be a high tower of fireproof construction in which there will be an illuminated clock to be visible over the entire harbor.

The Board of Managers of the Maryland Tuberculosis Sanatorium have approved plans for erection of an additional building, to accommodate about 200 patients. The structure will also contain quarters for doctors, nurses, etc. Howard Sill, 11 East Pleasant St., Baltimore, Md., will prepare specifications and invite bids. The building will be constructed from a $1,000,000 bond issue authorized by the Legislature.

WASHINGTON, D. C.—Milburn, Heister & Co., Archs., Home Life Bldg., have awarded the contract for double apartment at 1010 4th St. N. W., to PETER FERSINGER; owner, Mrs. Downey.

Milburn, Heister & Co., Archs., are preparing plans and specifications for new bleachers and remodeling grand stand at National Ball Park, Seventh and U Sts., T. C. Noyes, is Pres.

RICHMOND, VA.—Richmond and Henrico R. R. Co., C. Sims Bailey, Gen. Supt will receive bids until noon, Feb. 18, for erection of carbarn according to specifications and drawings that may be obtained from office of Company, 2, 4 and 6 Ebel Bldg., Richmond.

MILLEDGEVILLE, GA.—Bids were received as follows on Feb. 8, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Milledgeville, Ga.: D. J. Phipps, Washington, D. C., (1) limestone, $46,800, (2) sandstone, $47,300; Conners Bros. Co., Lowell, Mass., (1) $48,067; Pearson Construction Co., Dothan, Ala., (1) and (2) $47,-500; Thomas J. Lonergan, New York, (1) $58,185, (2) $58,700; Northern Construction Co., Milwaukee, Wis., (1) $48,100, (2) $50,-000; Algernon Blair, Montgomery, Ala., (1) $49,975, (2) $51,200; George Becking, Chattanooga, Tenn., (1) $46,908; Johnson & Matthews Construction Co., Florence, S. C., (1) $45,575, (2) $45,100.

COLUMBUS, OHIO.—E. K. HIBBS has been awarded the contract for the construction of a warehouse for the Orr, Black & Price Co., to be used in connection with a wholesale business. The block will be located at Spring and Front Sts.

BEDFORD, IND.—The School Board is advertising for bids for the construction for a 2-story brick and stone school building, 103 x 184 ft. with basement. Separate bids will be received for the heating and lighting. Bids will be opened Mar. 2.

INDIANAPOLIS IND.—D. A. Bohlen & Son are asking for bids for the remodeling of the Union Station. Estimated cost $75,000.

Richard Lieber has ordered plans for the erection of a county residence in Brown County. C. W. Doll & Co., is Arch.

John J. Ryan, lessee of the Colonial Theatre announces that he will soon ask for bids for the erection of a new vaudeville theatre to be constructed in the down town district. Plans will be ready for bidders in a few weeks.

LEBANON, IND.—The local lodge of Modern Woodmen has ordered plans on which to receive bids for the construction of a new business and lodge hall building, 70 x 80 ft. The building will be of brick and concrete.

MISHAWAKA, IND.—Eberhart Bros., have received the plans for the erection of a large Methodist Church to be built as a memorial to their parents. It will be a massive stone structure, 120 x 110 ft. surmounted by a tower, 120 ft. high. The location will be on Third and Church Sts. Bids will be solicited in a short time.

NORTH MANCHESTER, IND.—Bids will be received until 2 p. m., Feb. 24, for a library building in North Manchester. Plans and specifications may be obtained at the office of Isaac Oppenheim, North Manchester, Ind. Patton & Miller, 140 Dearborn St., Chicago, Ill., are the Archs.

PENNVILLE, IND.—The contract for the construction of the new high school building at this place has been awarded to MANN & CHRISTION, Decatur, Ind., at $36,702. The building will be of pressed brick, two stories high. The contract for the heating and lighting systems will be let by the School Board later. Charles Houck, Bluffton, Ind., is Arch.

SOUTH BEND, IND.—The Surprise Theater Co. has ordered plans for the remodeling and enlargement of the Surprise Photoplay Theater. Bids will be asked as soon as plans are completed. Ezra Rhodes is Pres.

SOUTH BEND, IND.—The Chicago, South Bend & Northern Indiana R. R. is planning to let contracts for the construction of combined passenger and freight stations at Mishawaka, Ind., and Niles, Mich.

WABASH, IND.—The Wabash R. R. has purchased a site on which to build a freight depot 475 ft. long, and will be thoroughly modern. Address local agent.

WINCHESTER, IND.—The Indiana Union Traction Co., Anderson, Ind., is preparing to build a large passenger and freight station at this place. The building will be of brick and stone construction.

DETROIT, MICH.—Spier, Kohns & Gehrke, 1325 Chamber of Commerce Bldg., Detroit, have awarded the general contract for the new church, 60 x 85 ft., for the Martin Luthern Society of Toledo, Ohio, to JOSEPH KESTING, Toledo, Ohio.

H. C. Wetzel & Co., 404 Hammond Bldg., Detroit, are revising plans and will take figures soon on the 3-story and basement Society Bldg., 60 x 150 ft., for Amity Lodge No. 33, I. O. O. F. W. J. White, Secy., 81 Amsterdam St. Building to be located on Van Dyke Ave. Cost $40,000.

Spier, Kohns & Gehrke, 1325 Chamber of Commerce Bldg., Detroit, are preparing plans for a new 4-story and basement apartment, 146 x 50, for J. E. Roche, 349 Chene St. Building to contain 24 apartments and will be located on Champlain St. Will be ready for figures about Feb 15. Cost $40,000.

Baxter and O'Dell, 1024 Hammond Bldg., Detroit, have been commissioned by Henry M. Williams, as architects, to prepare plans for a new 4-story and basement apartment house, 120 x 120 ft., to contain 40 apartments. To be located on Willis Ave. It will be pressed and stock brick, Bedford stone, composition roof, galvanized iron skylight, structural iron, hardwood finish and floors, ceramic tiling, wood mantels, and electric fixtures. Cost $70,000.

Adolph Marx, 19-21 Cadillac Sq. Detroit, is considering plans for two 8-story buildings to replace the old buildings at 19-21 and 23 Cadillac Sq. Architects have not been selected.

FLINT, MICH.—Knapp and Howarth, 15 South Franklin St., Wilkes-Barre, Pa., have prepared plans for a $50,000 addition to the building at West Second and South Saginaw St., Flint, Mich. Owner S. H. Ward, Flint, Mich. Bids are being received at the builders Exchange, Penobscot Bldg., Detroit, Mich.

MOUNT CLEMENS, MICH.—Bids were received as follows on Feb. 6, by James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., for the construction of a post office building at Mount Clemens, Mich. Item (1) limestone, (2) sandstone: Ambrose H. Stannard, New York, (1) $54,-000, (2) $54,500; W. D. Lovell, Minneapolis, Minn., (1) $59,500; M. Yeager & Sons, Danville, Ill., (1) $52,939, (2) $52,439; Conners Bros. Co., Lowell, Mass., (1) $56,000; Charles Hoertz & Son, Grand Rapids, Mich., (1) $57,789, (2) $58,100; Harmon Bros., Williamsport, Pa., (1) $51,584, (2) $51,783; Northern Construction Co., Milwaukee, Wis., (1) $56,500, (2) $57,500; King Lumber Co., Charlottesville, Va., (1) $57,000, (2) $59,-000; Charles W. Gindele, Chicago, (1) $51,-250; (2) $51,750.

MERRILL, WIS.—Feeller & Schober, Archs., Green Bay, Wis., will be ready for bids Mar. 1 for the erection of new county jail and sheriff's residence combined, at Merrill. Bids will be opened Mar. 15 and contracts awarded immediately thereafter. The building will be two stories high, 50 x 100 ft., of reinforced concrete with pressed brick facings. Combination lighting, steam heating system. The cost is $40,000. Noted Jan. 9.

MILWAUKEE, WIS.—Charles J. Dixon, 112 Mason St., will expend $11,000 in alterations in the Goldsmith Building, Wisconsin and Jefferson Sts., which he purchased for $250,-000.

The Wisconsin Telephone Co. has decided upon the following improvements of its Wisconsin system (Bell) for 1911; New exchanges; Milwaukee, $100,000, North Milwaukee, $35,000; Appleton, $75,000; Beloit, $75,000; miscellaneous, $200,000. New toll lines, $350,000, covering about six miles of copper circuits. Alonzo Burt, Pres.; H. O. Seymour, Gen. Mgr.

The Kenwood Club has formally organized with H. H. Cutler, 838 Shepard Ave., Pres. and Nathanael Greene, 872 Marietta Ave., Secy. Plans for the proposed $25,000 clubhouse have been prepared by Betts & Hosmer, Archs., 121 Wisconsin St., who will be authorized to take bids in about one month.

W. D. Van Dyke, Vice-Pres., and George H. Benzendorf, Chn. Building Committee, Northwesterh Mutual Life Insurance Co., have returned from a trip of inspection in the East to obtain ideas for the proposed new home office building to be erected on the block bounded by Wisconsin, Van Buren, Cass and Mason Sts., at a cost of approximately $2,500,000. The committee will make its report to the quarterly meeting of trustees in the middle of April, at which time it is probable that architects will be selected to prepare plans.

E. Brielmaier & Sons, Archs., 111 Mason St., Milwaukee, have been commissioned to prepare plans and specifications for the following work: Mother house and academy for Sisters of Notre Dame at Mankato, Minn., $250,000; main building, 56 x 150 ft., four stories, with two wings, 53 x 178 ft., three stories high, power plant and stables separ-

ate. Solid brick construction, hollow tile floors, slate roofing. College and seminary for Order of Benedictine Monks at Beatty, Pa., $175,000. Convent for Benedictine Order at Cottonwood, Iowa, $85,000. St. John's Orphan Asylum, Grand Rapids, Mich., $50,000.

RACINE, WIS.—The Common Council has appropriated $179,000 in the budget for 1911 for the public school system, including $50,000 for a new ward school building in the southwestern part of the city. A. J. Horlick is Mayor. B. Nelson is Supt. of Schools.

WATERTOWN, WIS.—The lowest bid for the construction of the new federal building was by the Northern Construction Co., 421 Milwaukee St., Milwaukee, Wis., at $55,600. James Knox Taylor is Superv. Arch., Treasury Dept., Washington, D. C.

WAUSAU, WIS.—The Building Committee, St. Jacobs Roman Catholic Church, has awarded the general contract for erecting its new edifice to MARKS BROS., General Contractors, 424 Bradford Ave., Milwaukee, Wis., at $43,479.

ST. PAUL, MINN.—The contract for the construction of the Richards Gordon grade school was awarded, on Feb. 11, in the office of H. P. Keller, Mayor, to P. O. NASVIK, 1358 Ashland Ave., on a bid of $39,597. The other bids were: P. Steenberg, $40,321; N. P. Franson & Co., $42,140, and Boyd Construction Co., $43,730. A. F. Gauger, city, is Arch.

PARKER, ARIZ.—Bids will be received by the Indian Dept., Washington, D. C., up to March 1, for the construction of four brick dormitory buildings at the Colorado River Indian School here. The buildings will be 40 × 70 ft. each, with concrete foundation and steps, natural stone sills, hard-burned brick walls and chimneys, three-coat plastering, four-ply asbestos roofing, o. p. trim, plumbing, 215-gallon steel tank, heater, water and sewer system, 4-in. c.-i. pipe, fire hydrants, gate valves, 60-ft. tower and 25,000-gallon tank, vitrified pipe sewer, manholes, retaining walls, etc.

BELLINGHAM, WASH.—Bids will be received until 3 p. m., on March 23, by James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., for the construction complete (except plumbing, gas piping, heating apparatus, elevator, electric conduits and wiring), of the United States Post Office at Bellingham, Wash., in accordance with the drawings and specifications, copies of which may be obtained from the Custodian of site at Bellingham, Wash., or at the discretion of the Superv. Arch.

LOS ANGELES, CAL.—The County Board of Supervisors of Los Angeles County have awarded contract to the F. O. ENGSTROM CO., Fifth and Seaton Sts., for the erection of a 5-story surgical ward at the County Hospital, at $197,164. The contract for the steam heating was awarded to the THOMAS HAVERTY CO., 517 South Los Angeles St., at $7,595, with an extra amount of $360 for pipe line. Hudson & Munsell, Archs., Stimson Bldg., Los Angeles.

The Los Angeles Public Market Co. has filed articles for reincorporation with a capitalization of $2,500,000. The company will erect seven large buildings, five stories high, 125 ft. deep, with a combined frontage of 600 ft. Reinforced concrete will be used. The buildings will be utilized as a public market, equipped with all modern appliances. The cost of construction will be $1,000,000. The leading stockholders are Benjamin Johnson, S. M. Haskins, E. B. Rivers, H. E. Honk, W. C. Henry, J. W. Beasley and C. S. Marston.

Norman F. Marsh, Arch., Broadway Central Bldg., has prepared plans for two high school buildings, to be erected at Fullerton. The administration building will be two stories and basement, 172 × 148 ft. The science hall will be one story and basement. The construction will be of brick, with plastered exterior, composition roof, Oregon pine trim, pine and maple floors, plumbing, wiring, heating and ventilating system. Estimated cost is $90,000.

LOS ANGELES, CAL.—Hudson & Munsell, Archs., Stimson Bldg., have prepared plans for a detention home, to be erected near East Lake Park, by the County of Los Angeles. The Board of Supervisors will call for bids upon the construction at once. The dimensions of the building will be 300 × 165 ft., with a central court, 100 × 130 ft., paved with concrete. There will be a concrete basement under the entire building. The floor and walls up to the floor level will be of concrete, and the upper walls to the roof will be of brick. The roof will be of slate and all partitions of hollow tile. Steam heat, extensive plumbing, laundry, boiler room, etc., will be installed, one story and two stories. The estimated cost is $75,000.

Morgan, Walls & Morgan, Story Bldg., are preparing plans for a 5-story concrete mercantile building, to be erected for Haas, Baruch & Co., at Second and Alameda Sts., to be 172 × 243 ft. Freight and passenger elevators will be installed. The estimated cost is $250,000.

Train & Williams, Archs., Exchange Bldg., will prepare plans for a 4-story concrete building, 90 × 175 ft., to be erected at Twelfth and Towne Ave., for the Los Angeles Creamery Co.

SACRAMENTO, CAL.—R. A. Herold, Arch., has been selected by the Masonic Hall Association as the architect for their new structure, to be erected at Twelfth and I Sts. The new buildings will cost $250,000. Work will begin early in the fall.

SAN FRANCISCO, CAL.—The Realty & Rebuilding Co., 1 aNtional Bank Bldg., has awarded contract to J. D. HANNAH, Monadnock Bldg., for altering, rebuilding and reconstructing a 2-story brick building at Kearney and Sacramento Sts., at $85,000. J. R. Miller, Lick Bldg., is the Arch. The D. Ghirardelli Co., North Point and Polk Sts., has awarded a contract to EDWARD MOONEY, 37 Stoneman St., for the carpenter work, hardware, stairs, mill work, glass, galvanized iron, tinning, etc., two 3-story and basement brick warehouses, in the block bounded by North Point, Polk, Beach and Larkin Sts., at $46,400. Wm. Mooser, Union Trust Bldg., is the Arch.

The VERMONT MARBLE CO., 244 Brannan St., has secured a contract for installing the marble work in a 12-story Class A building, being erected for Phoebe A. Hearst, at Market and Third Sts., at $47,413. Kirby, Petit & Green, Archs.

Architect Lansburgh, Gunst Bldg., will receive bids and award the contracts soon for the construction of several large brick wine cellars to be constructed at 16th and Kansas Sts., for Schlessinger & Binder Co., the estimated cost is $60,000.

Reid Bros., Archs., Call Bldg., are preparing plans for two structures to replace temporary buildings used since the great fire. One of the new structures will be erected at Fillmore and California Sts., for the Preston Estate, to be used for retail stores and apartments. The estimated cost is $90,000. The other building will be located at Fillmore and Green Sts.

Charles J. I. Devlin, Archs., Pacific Bldg., has awarded contract to the SANTA CRUZ PORTLAND CEMENT CO., Crocker Bldg., for furnishing the cement for the erection of a church building at Fulton and Parker Sts., for the Trustees of Saint Ignatius College, at $2.60 per sack, less 10 cts. each for sacks returned.

Henry H. Meyers, Arch., Kohl Bldg., has awarded contract to THOMAS ELAM & SON, for the carpenter work for a 5-story brick rooming house to be erected on Mission St., for E. W. Crellin. The building will cost $40,000.

SANTA MONICA, CAL.—The citizens here have voted bonds for $225,000 for the erection of a polytechnic high school. Construction will begin about Sept. 1.

SANTA MONICA, CAL.—The ALTA PLANING MILL CO., Los Angeles, Eighth and Alameda Sts., has been awarded contract for the construction of a revolving cafe on the new Fraser pier, being constructed here, at $85,000. The cafe will be built of glass and steel, three stories in height, 120 ft. diameter, 85 ft. high to dome. In addition to elevator and stairway, four escalators will convey guests to the cafe on second floor and summer garden on third floor. A 50-PH. electric motor, to furnish the operating power, will be installed.

TORONTO, ONT.—Bids will be received until noon, Feb. 18, by Darling & Pearson, Archs., 2 Leader Lane, Toronto, for all trades excepting masonry, concrete work, structural steel and terra cotta work required in the erection of a surgical wing for the general hospital here.

TORONTO, ONT.—It is reported that the Canadian Pacific has decided to construct a 16-story office building on the southeast corner of King and Yonge Sts. The building will be constructed of steel, faced with glazed terra cotta, and will cost $1,000,000. The building will accommodate the general passenger, freight, express, steamship, telegraph, solicitors and general ticket offices of the company. D. McNicoll, Montreal, is Vice-Pres. & Gen. Mgr.

Bids will be received until Feb. 18, by the Chairman of the Building Committee, Toronto General Hospital, for the erection of a surgical wing to the hospital. Plans by Darling & Pearson, Archs., 2 Leader Lane, Toronto, Ont.

WINNIPEG, MAN.—Bids will be received by M. Peterson, Secy. Civic Board of Control, until 11 a. m., Feb. 23, for the construction of public baths here, to cost approximately $47,000. Plans and specifications may be seen at the office of H. N. Ruttan, City Engr.

E. F. Hutchings, Pres., Great West Saddlery Co., announces the company will erect the following branch warehouses this Summer: Regina, Sask., 3-story, 50 × 90 ft., of solid brick, costing $25,000; Edmonton, Alta., 6-story, 53 × 150 ft., costing $102,000; Saskatoon, Sasks., 6-story, 120 × 50 ft., costing $90,000.

The Winnipeg Electric Co. has let to the CANADIAN GENERAL ELECTRIC CO., a contract for its new power station, which will have a capacity of 17,000 HP. Wilford Phillips, Gen. Supt.

An extension to Holy Trinity Church will be built at once at a cost of $70,000. Address Rev. Archdeacon Fortin.

The Confederation Life is having plans prepared for a skyscraper office building to be erected here this spring.

REGINA, SASK.—W. H. Sharron, Arch., is preparing plans for a 3-story brick and stone block to be erected on Railway St., for a local syndicate. Construction will start this spring.

The Aultman-Taylor Co., Marion, Ohio, is having plans prepared for a large warehouse to be erected here this Spring.

M. W. Sharon, Arch., is preparing plans for a 3-story office building for A. Mowatt.

SASKATOON, SASK. — The CARTER-HALLS-ALDINGER CO., Winnipeg and Chicago, have the contract for the erection of an hotel here, according to plans prepared by Brown & Vallance, Archs., Montreal, Que., at $300,000.

VANCOUVER, B. C.—The Provincial Public Works Department has extended the time until Feb. 21 for receiving bids for the new wing to the court-house here. F. G. Gamble, Pub. Works Engr.

CALGARY, ALTA.—The city has awarded the following contracts for the erection of new schools: GRANT BROS., at $57,000; JAMES McPHAIL, at $32,850.

WATER SUPPLY—IRRIGATION.

BOSTON, MASS. — During this year the city will purchase 6,000 water meters of various sizes. Louis K. Rourke is Comr. Pub. Wks.

*FORT ANDREWS (Boston post-office), MASS.—Bids will be received until 1 p. m., Mar. 10, by Capt. A. M. Miller, Constr. Q. M., U. S. A., 263 Summer St., Boston, for the extension of water mains and changes in sewer at Fort Andrews. For details, see advertisement in this issue.

*HORNELL, N. Y.—Bids will be received by the City Clerk until 3 p. m., March 10, for the construction of an earthen reservoir embankment, with concrete core wall and all accessories, together with about three miles of water mains. Estimated quantities: 23,000 cu. yds. embankment; 1,822 cu. yds. concrete core wall, spillway, etc.; one 44-ft. plate girder bridge, with solid floor; gate house and valve chambers; 13,200 ft. 20-in. c.-i. pipe; 1,845 ft. 16-in. c.-i. pipe; 11,500 lbs. c.-i. specials, valves, etc. Plans and specificatons on file in the office of the Board of Public Works

JAMESTOWN, N. Y.—The city is planning to increase its water supply and construct storage reservoirs having a capacity of 15,000,000 gallons. The sum of $50,000 is available for the work at present.

WESTBURY (L. I.), N. Y.—The town is considering the construction of a water-works plant. Estimated cost, $60,000. T. J. McCord is interested.

*SPRING LAKE, N. J.—Bids will be received by E. V. Patterson, Boro. Clk., until 2 p. m., March 10, for furnishing, delivering and erecting the complete mechanical equipment of an artesian water-works plant. For details, see advertisement in this issue.

*AKRON, PA. — Bids will be received by the borough until 8 p. m., Feb. 27, for the erection of a water plant in the borough. Plans and specifications can be seen by calling upon Horatio Sands, C. E., Akron. P. D. Getz is Clk. Council.

CORAOPOLIS, PA.—Bids will be received at the office of the Borough Clerk, until 7 p. m., March 1, for the following apparatus: One 1,500,000-gallon triplex pump; one 150-HP. gas engine for driving 1,500,000-gallon triplex pump; two 225-HP. gas engines, to be direct connected to 175-KVA., 2,300 volts, 60 cycles, 3-phase alternating-current generators; one 75-HP. gas engine, to be direct connected to 50-KVA., 2,300 volts, 60 cycles, 3-phase, alternating-current generator; two 175-KVA., 2,300 volts, 60 cycles, 3-phase alternating-current generators, complete with exciters; one 50-KVA., 2,300 volts, 60 cycles, 3-phase alternating-current generator, complete with exciter; one 5-panel switchboard, complete; one 50-light series luminous or metallic flame arc lamp equipment, complete. S. B. Martin is Consult. Engr.

LEXINGTON, VA.—The city has voted $75,000 of bonds for additional water supply. The city contemplates securing water from the mountain, a distance of eleven miles from the city. Capacity, 250,000 gallons. The city's force may construct the works. Samuel B. Walker, Jr., is Mayor.

PARKERSBURG, W. VA.—Bids will be received until Feb. 23 by the Board of Affairs, C. P. Morrison, Pres., for furnishing and installing electric lighting plant, system of plumbing and heating and furnishing and erecting a steel standpipe in connection with construction of the new water supply system, per Contracts Nos. 14, 15 and 16. Samuel M. Gray is Engr., 930 Banigan Bldg., Providence, R. I.

GAINESVILLE, GA.—Bids will be received until Feb. 27 by the city for improvink and extending the water-works system. J. W. Barnett is Consult. Engr., Athens, Ga.

ROCKMART, GA. — Bids will be received by the Mayor and Council until 2 p. m., March 7, for machinery, material and construction of a water-works and sewerage system, for which $35,000 in bonds have been voted and sold. Plans may be seen at the office of the Mayor and the J. B. McCrary Co., Engr.-in-Charge, 1311-1315 Empire Bldg., Atlanta, Ga., and forms of proposal, specifications, etc., may be obtained from either.

MOBILE, ALA.—Plans have been completed for extending the water and sewer systems. Estimated cost, $600,000. Wright Smith is Ch. Engr., Bd. Pub. Wks.

McCOMB CITY, MISS.—The Board of Mayor and Selectmen will receive bids until March 7 for sinking an artesian well. J. D. Harrell is City Clk.

CHADRON, OHIO.—B. F. Hewitt, Geneva, Ohio, Consult. Engr., has submitted plans for the construction of a water-works and sewer system here to the City Council. The plans provide for laying the water and sewer pipes in one trench.

CINCINNATI, OHIO.—The U. S. Cast-Iron Pipe & Foundry Co. has submitted the lowest bid, it is reported, recently for furnishing 4,870 tons of pipe at $22.85 per ton, and 200 tons of specials, at $60 a ton.

ELYRIA, OHIO.—The Board of Control has engaged the Aetna Engineering Co., 125 La Salle St., Chicago, Ill., to investigate the water-works situation here.

KENTON, OHIO.—The Riggs & Sherman Co., Toledo, have been retained by the city for the preparation of plans and specifications for the prospective remodeling of the municipal water-works plant.

NILES, OHIO.—Plans have been prepared for the construction of a new water-works system for the city. Estimated cost, about $40,000. F. M. Brewer is City Engr.

TROY, OHIO.—Bids will be received until March 11 by A. E. Sinks, County Audr., Troy, for constructing water mains from the intersection of Water and Adams Sts. to the Miami County Infirmary.

*APPLE RIVER, ILL.—Bids will be received until March 1 by the village for the construction of water-works. George Guy is Clk. Lester A. Varty is Village Clk.

CHICAGO, ILL.—The contract for furnishing 36 and 30-in. c.-i. water pipe has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., 217 La Salle St., Chicago, at $23.75 per ton. Total, about $80,000. Bids were opened on Feb. 1. Noted on Feb. 9.

SPARTA, WIS.—Bids will be received until Feb. 20 by the city for a 1,500,000-gallon high-duty pumping engine. Bids were received on Jan. 5 and rejected. C. H. Gregory is Supt. and Secy.

ZEARING, IOWA.—The citizens on Feb. 2 voted in favor of issuing bonds for the construction of a water-works plant.

TWO HARBORS, MINN.—The contract has been awarded to the FAIRBANKS-MORSE CO., Chicago, Ill., it is reported, for furnishing a pump of 3,000,000 gallons daily capacity at about $10,000.

BATTLE CREEK, NEB.—Bid[illegible] received until noon, Feb. 25, by [illegible] the construction of water-w[illegible] Richardson is Village Clk.

VERMILLION, S. DAK.—Irw[illegible] Secy. Regents of Education, wi[illegible] until 2 p. m., March 10, for th[illegible] construction of an artesian w[illegible] deep.

HARLOWTOWN, MONT.—Bid[illegible] received by S. K. Campbell, Tow[illegible] March 2, for the construction o[illegible] with a capacity of 250,000 gall[illegible] furnishing and laying 3,550 ft. [illegible] and 400 ft. of 6-in. main, wi[illegible] gate valves and fittings. Bids [illegible] ceived for wood, cast-iron and [illegible] C. M. Thorpe is Engr., Bozeman.

MALTA, MONT.—Bids will [illegible] called for soon for the construc[illegible] Milk River irrigation project. [illegible] Detailed drawings and specificati[illegible] ing prepared for the various fea[illegible] cipal among them the St. Mary [illegible] Dodson North Canal, Dodson So[illegible] and Vandalia Canal. C. P. Willia[illegible] ject Engr., Malta.

CONWAY, ARK.—The city has [illegible] for $68,000 for the construction of [illegible] works system. The contract for [illegible] was awarded to Joseph McCo[illegible] of Little Rock, Ark., and work will [illegible] the system at once. It is planned [illegible] struct the pumping station, which [illegible] located on Cadron Creek, six mile[illegible] Conway, first. The pumps are to [illegible] by motors supplied with current [illegible] the city light plant and the transmis[illegible] for the electricity will also be co[illegible] before excavating is done.

EDNA, TEX.—W. E. Gillingham [illegible] A. M. Davis, of Modesta, Cal., who [illegible] purchased a ranch of 2,580 acres [illegible] near here, will convert the tract into [illegible] and will install irrigation pumping [illegible] ery.

GEORGETOWN, TEX.—Bids were [illegible] on Jan. 23 as follows by R. E. Ward, Mayor, for furnishing about 300 tons of Clas[illegible] c.-i. water pipe: (a) 4-in., (b) 6-in., (c) 8-in., (d) specials: American Cast Iron Pipe Co., (a) $27 per ton, (b & c), $25.45, (d) $55; Dimmick Pipe Co., Birmingham, Ala. (a), (b) and (c), $28, (d) $58; R. D. Wood & Co., (a), (b) and (c), $29; U. S. Cast Iron Pipe & Foundry Co., (a) $29, (b) and (c) $26, (d) $55; Blum Hardware Co., (a), (b) and (c) $30.15, (d) $56.15. F. H. Lancashire is Engr., Dallas.

GEORGETOWN, TEX.—We are officially advised that the contract for boiler-feed pump, heater, two alternators, two engines and one triplex pump, bids opened on Feb. 8 by the city, has been awarded to the BRIGGS-WEAVER MACHINERY CO., of Dallas, Tex. All bids for laying c.-i. pipe and furnishing hydrants and valves, building power house and surface reservoir were rejected on Feb. 8. New bids will be received until Feb. 21. F. H. Lancashire is Engr., Dallas.

LA GRANGE, TEX.—The City Council has under consideration the matter of taking over the local water-works plant and distributing system at the expiration of the present lease. If this is done improvements and extensions will be made.

TAYLOR, TEX.—Andrew J. Zilker, of Austin, the new owner of the Taylor water-works and service, has contracted with H. B. SEIDERS, of Taylor, for the building of a new water supply reservoir for the storage of water for fire and domestic uses during the time that will be consumed in enlarging the two main reservoirs to four times their present capacity. The supply reservoir will be 300 × 300 ft. and 20 ft. in depth, requiring the excavation and removal of about 25,000 lin. ft. of earth. Work has begun. Noted on Jan. 26.

CHEROKEE, OKLA.—Bids will be received by the city about Feb. 25 for extensions to the water-works and sewerage plants. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Consult. Engrs.

SNYDER, OKLA.—The town has voted in favor of issuing $40,000 of bonds for the extension of the municipal water and electric light system.

LEWISTON, IDAHO.—The contract has been awarded to DOLE & COLLINS for laying seven miles of pipe to comprise the water distribution system for the Indian Cache fruit ranch. The wood stave type of pipe will be used and it will be covered to a depth of 30 ins.

OGDEN, UTAH.—Contracts, it is reported, will be awarded the latter part of this month for the construction of the new water viaduct from Coldwater Canyon. William Bostoph is City Engr. Noted on Feb. 9.

SPOKANE, WASH.—J. C. Argall, Secy., Bd. Pub. Wks., will receive bids until 2 p. m., Feb. 20 for the erection of a brick and cement building at the auxiliary station at the Lincoln Heights reservoir.

SNOHOMISH, WASH.—The citizens have voted $110,000 of bonds for the construction of a gravity water system.

KLAMATH FALLS, ORE.—Bids will be received at the office of the U. S. Reclamation Service, Klamath Falls, until 2 p. m., March 10, for the construction of Schedule 1 of the Lost River Diversion Channel, located about ten miles southeast of Klamath Falls. The work consists of about 7/10 miles of drainage channel and about 35,000 cu. yds. of excavation and embankment. W. W. Patch is Project Engr.

SILVERTON, ORE.—The city has voted $75,000 of bonds for the construction of a water system.

LOS ANGELES, CAL.—Bids will be received until 11 a. m., Feb. 21, by Lorin A. Handley, City Clk., for furnishing 5,000 ft. of 6-in. riveted steel water pipe, No. 14 gage, extra dipped, slip joints and 3,500 ft. of 4-in. riveted steel water pipe, No. 16 gage slip joints extra dipped, price to be per ft. f. o. b. Griffith Park. Bidders must state earliest possible date of delivery.

RIVERSIDE, CAL.—Edward T. Youmans, Pres., and F. D. Cornell, Secy., of the El Sobrante Land Co., which has purchased 43,000 acres of land near Riverside, are planning to develop water extensively on the tract. It is planned to construct a dam across the canyon, which will create a reservoir covering 250 acres and which will be of an average depth of 15 ft.

VALLEJO, CAL.—The Board of City Trustees has been asked by the Board of Public Works to ask for bids for supplying the city with 1,200 water meters. E. P. Noyes is City Engr.

ST. CATHARINES, ONT.—Bids will be received until noon Feb. 28, by the Chairman, Water Works Commission, for furnishing pipe and specials, gate-valves, and pig lead. Alex. Kline is Supt.

PENTICTON, B. C.—The contract will probably be let in two or three months for the construction of water-works system here, the cost about $130,000. F. E. Tiley is City Clk.

SEWERS.

EAST ANDREWS, MASS.—See item under Water Supply—Irrigation.

QUINCY, MASS.—This city has petitioned the State Legislature for authority to issue $2[illegible],000 in bonds for extension of sewers. John T. Shea is Mayor.

BUFFALO, N. Y.—The City Council has ordered construction of a 24-in. brick sewer in Sessions Ave., east of Delaware Ave; also 10-in. tile sewers in Markham, Heyer and Medford Pl., between Sessions and Villa Aves. and directed the Court of Public Works to advertise for proposals.

MAMARONECK, N. Y.—The village is considering a special election on the question of raising $200,000 for constructing outlet sewer into Long Island Sound, paving Boston Post Road and Mamaroneck Ave., the entire length of village, improving Halstead Ave. and old White Plains Road and building new bridge over Mamaroneck River at Barry Ave.

NEW HARTFORD, N. Y.—This village has voted in favor of joining with residents of the section between Sanquoit Creek and the Utica city line in building a sewage system and disposal plant. M. Baker is Village Pres. and Engr. A. M. Scripture prepared plans.

NEW YORK, N. Y.—Bids will be received until Feb. 27 by Lawrence Gresser, Pres. of the Boro. of Queens for construction of sewer as follows: a temporary sewer and appurtenances in Ninth Ave., from the Railroad Bridge to 14th St., at Whitestone, Third Ward; a temporary sewer and appurtenances in Hoffman Boulevard, from Hillside Ave. to Jefferson St., Fourth Ward and a sewer and appurtenances in Second Ave., from the Crown, south of Pierce Ave. to Graham Ave., and in Pierce Ave., from Second Ave. to Third Ave., First Ward; a sewer and appurtenances in New York Ave., from South St. to Cumberland St., Fourth Ward; a sewer and appurtenance in Fourth Ave., from Flushing Ave. to Potter Ave., First Ward; a sewer and appurtenances in Ely Ave., from Payntar Ave. to the Crown South of Wilbur Ave., and in Wilbur Ave., from Ely Ave. to Van Alst Ave., First Ward; a sewer in 15th Ave., from Newtown Road to Grand Ave., First Ward; a sewer and appurtenances in Elm St., from Crescent St. to 100 ft. west of Academy St., and a receiving basin on the Northeast corner of Elm St. and Academy St., First Ward; temporary receiving basins on the southeast corner of 19th St. and Bayside Ave., and on the southwest corner of 19th St. and 14th Ave., Whitestone, Third Ward; a temporary catch basin on the northeast corner of 14th St. and 14th Ave., at Whitestone, Third Ward; a receiving basin on the Northeast corner of Temple St. and Van Alst Ave., First Ward; receiving basins on Camelia St.; one on the northwest and northeast corners of Hopkins St.; on the northwest, northeast, southeast and southwest corners of Van Alst Ave.; on the southeast corner of Ely Ave., and on the east side of Crescent St., opposite Camelia St., First Ward; a temporary receiving basin on the sast side of Kneer Ave., at the Long Island Railroad, and one on the west side of Kneer Ave., at the Long Island Railroad, at Far Rockaway, Fifth Ward; a temporary receiving basin on the southwest corner of Neptune Ave. and Washington Ave., at Rockaway Beach, Fifth Ward; receiving basins on the west side of Hopkins Ave., opposite Lincoln St.; on Lincoln St., on the northeast and southeast corners of Hopkins Ave., the northeast, southeast and northwest corners of Van Alst Ave.; the northeast, southeast, southwest and northwest corners of Ely Ave., and on the east side of Crescent St., opposite Lincoln St., First Ward; a temporary receiving basin on the northeast corner of Center St. and the Boulevard, at Rockaway Beach, Fifth Ward; a sewer and appurtenances in Liberty Ave., from Lefferts Ave. to Stoothoff Ave., and in Stoothoff Ave., from Liberty Ave. to Beaufort Ave., Fourth Ward.

WHITE PLAINS, N. Y.—The Sewer Committee of the Board of Trustees is conferring with authorities of the town of Scarsdale, relative to sharing cost of constructing a sewer from village line through Scarsdale to Bronx Valley sewer; cost estimated at from $19,400 to $29,500.

*BRIDGETON, N. J.—Bids will be received until 8 p. m., Mar. 7, by the City Council, Jacob B. Jones, Clk., for furnishing all material and doing all work necessary to complete the construction of a sewerage disposal works and pumping station, including the necessary piping, grading, etc., together with two cast iron outfall pipes and a cast iron cover crossing. Plans and specifications may be obtained at the office of City Clk. or at the office of Clyde Potts, 30 Church St., New York.

CLIFFSIDE PARK, N. J.—Plans are about completed for the proposed sewer system and will be forwarded to the State Bd. of Health for approval. Election will be held to vote on issuing bonds for same.

SUMMIT, N. J.—The following bids were received on Feb. 7, for the construction of 4,960 lin. ft. of 8 and 10-in. vitrified pipe sewer in Springfield Ave. and Tulip St., and manholes, excavation, etc., necessary to same: John C. Schrade, $12,908; Fusaco Construction Co., $10,878; Michele Garofano, $9,082; P. Mauriello, $16,656; New Rochelle Construction Co., $10,940; RUSSELL KLOCKNER (awarded contract), $7,902. John S. Stiger is City Engr.

TRENTON, N. J.—It is reported that bonds for $55,500 have been sold.

*ATLANTA, GA.—Bids will be received until 3 p. m., March 14, by the Mayor of the City of Atlanta, for furnishing all labor and materials for constructing Intrenchment Creek Disposal Plant; also the Intrenchment Creek Intercepting sewer from the County line to the location of the plant, and for constructing what is known as the Du Bose Aqueduct on the Peachtree Creek Intercepting Sewer line, and the aqueduct and bridge over the Orme St. branch on the Collier Road, and the aqueduct on Intrenchment Creek. Plans and specifications may be obtained in the office of the Chief of Construction, Atlanta, Ga., or at the office of Hering & Fuller, 170 Broadway, New York.

COLUMBUS, OHIO.—The city council adopted a resolution declaring it necessary to construct a sewer in Seventh St., from Markinson Ave. to the alley north of Morrill Ave., in the alley north of Morrill Ave. and in the alley north of Welch Ave.

OAKLEY, OHIO.—Bids will be received by Oscar Koshe, Village Clk., until Feb. 27, for labor and material for a sewer in Taylor Ave.

KOKOMO, IND.—The construction of a sanitary sewer system is being considered at a cost of approximately $50,000. Bids will be received in March. Jackson Morrow is City Engr.

DETROIT, MICH.—The Common Council of the City of Detroit at their meeting of Feb. 7, decided to have the Dept. of Public Works, J. J. Haarer, Commissioner, 104 City Hall, see that the following lateral sewers are constructed: Lateral Sewer No. 2126, in alleys bounded by Lawndale, Springwells and Logan Aves. and Rathbone St. Estimated cost $2.00 per lin. ft.; Lateral Sewer No. 2134, in alleys bounded by Green, Beard and Lafayette Aves. and Army St. Estimated cost per lin. ft. $1.70; Lateral Sewer No. 2176, in alleys bounded by Vinewood and Roosevelt Aves. and Brown and Moore Places. Estimated cost per lin. ft. $1.40; Lateral Sewer No. 2183, in alleys bounded by Mitchel, McDougall, Kirby and Ferry Aves. Estimated cost per lin. ft. $1.30;; Lateral Sewer No. 2184, in alleys bounded by Woodmere, Elsmere, Chamberlain and Rathbone Sts. Estimated cost per lin. ft. $1.30; Lateral Sewer No. 2185 in alleys bounded by Brush, Beaubien, Larned and Congress Sts. Estimated cost $3.00 per lin. ft.; Lateral Sewer No. 2190 in alleys bounded by Grand River, Beechwood, Seebaldt and Allendale Sts. Estimated cost per lin. ft. $1.70; Lateral Sewer No. 2192 in alleys bounded by Scotten, Firewood, Larchmount and Seebaldt Aves. Estimated cost per lin. ft. $1.70; Lateral Sewer No. 2191 in alleys bounded by Grand River, Scotten, Larchmont and Seebaldt Aves. Estimated cost $1.70 per lin. ft.; Lateral Sewer No. 2193 in alleys bounded by Grand River, Beechwood, Seebaldt and Allendale Aves. Estimated cost $1.70 per lin. ft.

*BEMENT, ILL.—Bills will be received until 1 p. m., March 3, by the Board of Local Improvements, W. J. Day, Pres., for the furnishing of the material and the construction of a system of storm sewers and also an outflow drain, as follows: Outflow drain open ditch, length, 2,645 ft.; excavation, 6,166 cu. yds.; concrete retaining wall, approximately 9 cu. yds. concrete; sewer proper; 740 ft. of concrete sewer, wall 6 ins. in thickness; diameter, 48 ins.; average cut, 8.20 ins.; 1,312 ft. of vitrified sewer pipe, average cut, 6.10 ft. (size 36 ins.); 1,295 ft. of 27-in. vitrified pipe, average cut, 7.20 ft.; 1,511 ft. of vitrified sewer pipe, average cut, 5.50 ft. (size 22 ins.-; 741 ft. of 20-in. vitrified sewer pipe, average cut, 5.80 ft.; 2,822 ft. of 30-in. vitrified pipe, average cut, 6.17 ft.; 1,720 ft. of 24-in. vitrified sewer pipe, average cut, 6.59 ft.; 928 ft. of 20-in. vitrified sewer pipe, average cut, 6.10 ft.; 685 ft. of 12-in. vitrified sewer pipe, average cut, 4 ft.; 951 ft. of 20-in. vitrified sewer pipe, average cut, 5.26 ft.; 16 manholes; 85 catchbasins. Plans and specifications are on exhibition at the Town Clerk's office in the First National Bank Bldg., Bement Ill.

DANVILLE, ILL.—The construction of a storm and sanitary sewerage system is under consideration. The estimated cost is about $50,000. Bids will be advertised about June 1. W. E. Winn, City Engr.

HOOPESTON, ILL.—According to press reports the City Council has passed an ordinance for the construction of a sewerage system. Cost $70,000.

CASCADE, IOWA.—The Iowa Engineering Co., Clinton, Iowa, is preparing plans for the construction of a sewerage system. Estimated cost is $30,000.

INDIANOLA, IOWA.—The City Council will, it is reported, install during the summer about 4 or 5 miles of sewers. Cost about $40,000.

OWATONNA, MINN.—Harvey Dartt, City Engr., is reported to be preparing plans for storm sewers. Cost about $14,000.

ST. PAUL, MINN.—The Board of Public Works, R. L. Gorman, Clk., will receive bids for the construction of the St. Anthony Park North sewer system. Plans prepared by L. W. Rundlett, City Engr. The date for opening bids will be announced later. Estimated cost, $130,000.

COFFEYVILLE, KAN.—Plans are being prepared for the construction of 7 miles of 8 to 15 in. vitrified pipe sewer in Sanitary Sewer District No. 5.

*POCATELLO, IDAHO.—Bids will be received by the City Council of Pocatello, Idaho, until 8 p. m., Mar. 9, for the construction of trunk sewers in accord with plans and specifications on file in the offices of Hering & Fuller, Engineers, New York, and W. A. Samms, City Engr.

SPARKS, NEV.—The report of Louis C. Kelsey, 402 Dooly Bldg., Salt Lake City, Utah, has been adopted by the City Council, for the reconstruction of the sanitary sewer system. Cost about $33,476. W. J. Stinson is Mayor.

PARKER, ARIZ.—See item under Buildings.

SEATTLE, WASH.—The construction of a trunk sewer here is under consideration. The estimated cost is approximately $1,000,000. R. H. Thomas is City Engr.

ANAHEIM, CAL.—Bonds amounting to $90,000 for the construction of a municipal sewer system and $8,500 power plant and water works were voted here recently. The quantities and estimates for the sewer system as prepared by the City Engineer are as follows: 52,700 ft. 6-in. sewer pipe; 14,700 ft. 8-in. pipe; 8,300 ft. 10-in. pipe; 5,200 ft. 12-in. pipe; total 81,040 ft. Estimate, cost of pipe, trenching, laying and back filling, $30,016; 194 manholes, $9,603; flush tanks, $3,774;; handholes, $357; 40 water connections, $310; Y's, tees, reducers, etc., $1,554; total cost of inside system $46,249. Sewer farm, $23,200.

CONCORD, CAL.—Spalding, Sloan & Robson, San Francisco, it is reported, are preparing plans for a sewer system.

LOS ANGELES, CAL.—The Board of Public Works awarded contract to W. N. HENDRICKS, for constructing a sewer in Canal St. and other streets in Wilmington, at $16,100 for sewer complete.

STREETS AND ROADS.

BOSTON, MASS.—Bids will be received until Feb. 27 by J. Edward Mullen, Supt. of Supplies, Tremont Bldg., for furnishing 800,000 gals. of road oil.

BOSTON, MASS.—We are officially advised that the following bids were received on Feb. 6 by the Metropolitan Park Commission, for grading and surfacing Lynn Fells Parkway from Tremont St. to Bellvue Ave.: (a) 9,000 cu. yds. earth grading; (b) 500 cu. yds. filling material; (c) 450 ft. 8-in. vitrified pipe and 700 ft. 10-in. pipe; (d) 29 catch basins and manholes; (e) 124 ft. straight stone and edge and 580 ft. curved edge stone; (f) 3,000 cu. yds. loam; (g) 2,700 sq. yds. roadway surfacing; (h) 1,000 sq. yds. walk surfacing; (i) total; Henry G. Porter, Middleboro, Mass.: (a) 60 cts., (b) 75 cts., (c) 50 and 55 cts., (d) $26 and $36, (e) $1.60 and $2.40, (f) $1.55, (g) 59 cts., (h) 34 cts., (i) $15,462; Luigi C. Carchia, Boston, (a) 38 cts., (b) 90 cts., (c) 50 and 75 cts., (d) $15 and $30, (e) 90 cts. and $1.25, (f) $1.40, (g) 90 cts, (h) 40 cts., (i) $13,147; Fred. E. Ellis, Melrose, (a) 42 cts., (b) $1, (c) 30 and 38 cts., (d) $25 and $45, (e) $1.00 and $1.40, (f) $1.40, (g) 65 cts., (h) 30 cts., (i) $12,908; Grant Construction Co., Boston, (a) 40 cts, (b) 75 cts, (c) 30 and 38 cts., (d) $30 and $50, (e) $1.04 and $1.40, (f) $1.25, (g) 85 cts., (h) 30 cts., (i) $12,832; Coleman Bros., Boston, (a) 50 cts, (b) 60 cts., (c) 22 and 28 cts., (d) $25 and $40, (e) $1.05 and $1.50, (f) $1.25, (g) 50 cts., (h) 25 cts., (i) $12,515; Thomas Fitzgibbon, Boston, (a) 38 cts., (b) $1.07, (c) 22 and 28 cts, (d) $38 and $68, (e) $1.00 and $1.50, (f) $1.12, (g) 60 cts, (h) 29 cts., (i) $12,066; Richmond I. Hudson, Wilmington, Mass., (a) 40 cts., (b) 70 cts., (c) 30 and 40 cts., (d) $20 and $45, (e) $1.25 and $1.50, (f) $1.20 (g) 50 cts., (h) 30 cts., (i) $11,595; P. F. Giovannini, Boston, (a) 45 cts., (b) 60 cts., (c) 50 and 55 cts., (d) $25 and $35, (e) $1.20 and $1.25, (f) $1.10, (g) 50 cts, (h) 20 cts., (i) $11,559; Martin & Condon, Watertown, Mass., (a) 45 cts., (b) 70 cts., (c) 35 and 37 cts., (d) $15 and $25, (e) $1.10 and $1.30, (f) $1.20, (g) 49 cts., (h) 22 cts., (i) $11,435; Giriaco & Guiseppi Bevilacqua, Boston, (a) 40 cts., (b) 65 cts., (c) 30 and 45 cts., (d) $28 both, (e) 90 cts. and $1.25, (f) $1.00, (g) 65 cts., (h) 40 cts., (i) $11,179; Jas. H. Fannon, Somerville, Mass., (a) 40 cts., (b) 65 cts., (c) 35 and 40 cts., (d) $20 and $30, (e) $1.10 and $1.30, (f) $1.10, (g) 55 cts., (h) 30 cts., (i) $11,068; ROWE CONTRACTING CO., Brighton, Mass. (awarded contract), (a) 30 cts., (b) 50 cts., (c) 40 and 45 cts., (d) $17 and $25, (e) $1.10 and $1.40, (f) $1.20, (g) 50 cts., (h) 20 cts., (i) $10,156. John R. Rablin is Consult. Engr.

BUFFALO, N. Y.—The contracts for street improvements will probably be awarded as follows: Oak St., from Goodell to Carlton St., repaving with asphalt to the GERMAN ROCK ASPHALT & CEMENT CO., LTD., D. S. Morgan Bldg., at $10,800; Milton St., from Seneca St. to Pennsylvania R. R., paving with brick to the CONSTANTINE CONSTRUCTION CO., at $8,000; Krupp St., from Broadway to Asley St., paving with brick, to the HENRY P. BURGARD CO., Lathrop Bldg., at $5,600; Sanford St., from Dewey to Leroy St., paving with asphalt, to the GERMAN ROCK ASPHALT & CEMENT CO., at $5,118. Francis G. Ward is Comr. of Pub. Wks.

BUFFALO, N. Y.—Bids will soon be received for paving with asphalt and brick Lamont St., 26 ft. wide, between Ontario and Heward Sts., and Northrop Pl., 20 ft. wide, between Main and Winspeare Sts.

The contract for paving Ledger St., 24 ft. wide, between Hertel Ave. and Troost St., with round edge shale brick on concrete base has been awarded to the CONSTANTINE CONSTRUCTION CO.

BUFFALO, N. Y.—Bids will soon be received for paving Frank Ave., 26 ft. wide, from Mineral Spring Ave. to Wells Ave.

The contract for repaving Grey St., 28 ft. wide, with standard asphalt, has been awarded to the H. P. BURGARD CO.

The lowest bid received for paving Knowlton Ave., from Delaware Ave. to Niagara Falls Boulevard, was submitted by the German Rock Asphalt Co., of Buffalo, at $22,990. Francis G. Ward is Comr. Pub. Wks.

LONG ISLAND CITY (L. I.), N. Y.—Bids will be received by Lawrence Gresser, Pres. Boro. of Queens, until Feb. 20, for regulating, grading, and laying sidewalks on portions of various streets.

NEW YORK, N. Y.—Bids were received on Feb. 9 by George McAneny, Pres. Boro. of Manhattan, for maintaining asphalt pavements on various streets, as follows: Vulcanite Paving Co., item 1, $50,722; item 2, $21,714; item 3, $29,442. Uvalde Asphalt Co., $56,600, $22,325, $30,260. Sicilian Asphalt Paving Co., $54,355, $23,275, $25,588.

NEW YORK, N. Y.—We are officially advised that contracts were awarded on Feb. 9, for maintaining asphalt pavements on various streets, as follows: Contracts Nos. 1 and 2, to the VULCANITE PAVING CO., at $50,722, and $21,714, respectively; contract No. 3, to SICILIAN ASPHALT PAVING CO., at $25,588; contract No. 5, to the BARBER ASPHALT PAVING CO., at $21,130. Noted on Feb. 2.

BRIDGEWATER, VA.—The Town Council is considering macadamizing East Commerce St. from the intersection of Main St. to the corporate boundary line at Berlinton. Address the Town Clerk.

HARRISONBURG, VA.—Bids will be received by the Commissioners of Rockingham County until Feb. 16 for constructing three miles of macadam road from Elkton toward Harrisonburg. P. St. J. Wilson, of Richmond, Va., is State Highway Comr.

NORFOLK, VA.—Bids were received on Feb. 11 by the Bureau of Yards and Docks for paving at the Navy Yard, Norfolk, as follows: F. J. McGuire, City Hall Ave., Norfolk, Va., $26,975; Simons-Mayrant Co., Charleston, S. C., $28,279; Field, Barker & Underwood, Inc., Arcade Bldg., Philadelphia, Pa., $23,350; Lewis Lawson, 834 W. Highland Ave., Norfolk, $26,100; Atlantic Bitulithic Co., Richmond, Va., $24,800; Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, $21,544.20. Noted on Feb. 9.

*NORFOLK, VA.—Bids will be received by the Board of Control, W. T. Brooke, Engr., until 12:30 p. m., March 1, for regulating and paving with some smooth material, a portion of Bank St. The work will comprise about 4,125 sq. yds.

PORTSMOUTH, VA.—The contract for macadamizing two miles of Great Bridge Road has been awarded to R. B. DENBY, of Norfolk, at $11,890.

RICHMOND, VA.—Bids will be received until Feb. 16 for grading Tulip St., from Venerable to Carrington Sts., and 22d St., from Carrington to Short Sts. Charles E. Bolling is City Engr.

SPOTTSYLVANIA, VA.—Bids will be received by the Board of Public Works, W. A. Harris, Secy., until March 6, for the construction of 1¾ miles macadam road. A. F. Brown is Engr.-in-Charge.

ELIZABETH CITY, N. C.—The contract for paving Water St. and the intersecting streets in the business districts has been awarded to J. L. LAWSON, of Norfolk, Va., at $1.60 per sq. yd., for granite blocks.

SAVANNAH, GA.—Bids will be received by the Board of County Commissioners until noon, Mar. 9, for furnishing 5,000 cu. yds. cement, or like material, for improving the public roads.

MOBILE, ALA.—Bids will be received by the Board of Public Works until noon, Feb. 16, for laying 33,000 sq. yds. wood block pavement, including grade and concrete foundation, and 13,426 lin. ft. cement curb. Wright Smith is Ch. Engr. Bd. of Pub. Wks.

JENNINGS, LA.—The contract has been awarded to DE JERSEY & FARNARD for the construction of eight miles of sidewalk and curbing.

NEWPORT, TENN.—The contract for completing the construction of 35 miles of road in Kocke County has been awarded to T. L. PETERS & J. R. GIBSON, at $37,000.

CLEVELAND, OHIO.—Contracts for brick paving have been awarded as follows: Aetna Road, to M. E. CAVANAUGH, at $14,113; Ansel Road, CLEVELAND TRINIDAD PAVING CO., at $23,946; West 83d St., ROEHL BROS., at $13,111; West 54th St., to ROEHL BROS., at $13,443; Ackley Road and East 59th St., to M. E. CAVANAUGH, at $18,625; Kennedy Ave., to M. E. CAVANAUGH, at $12,840; Woodhill Road and East 93d St., three contracts, BALDWIN BROS., $31,068 and $7,429, and CLEVELAND TRINIDAD PAVING CO., at $34,489.

LOGAN, OHIO.—Bids will be received by the City Council until Feb. 20, for furnishing the necessary labor and materials for the improvement of Main St. from Culver St. to the Hocking Valley tracks by grading and paving with brick.

MONTPELIER, OHIO.—The proposition to vote for $22,000 to pay the village's portion of the expense of paving Main and Empire Sts., has been carried. The total cost of the improvement is $64,700. Noted on Feb. 2.

WAPAKONETA, OHIO.—Bids will be received by Fred. A. Klipfel, Village Clk., until noon, Feb. 24, for paving Mechanic St. The estimated cost is $51,000. Noted on Feb. 2.

BLOOMFIELD, IND.—We are officially advised that the contract for macadamizing the W. W. Clogston Road in Washington Township, has been awarded to STAFFORD & CARPENTER, of Lyons, Ind. Noted on Jan. 26.

BRAZIL, IND.—The Commissioners of Clay County have awarded a contract for the construction of the Harris gravel road in Van Buren Township to JAMES A. GLYNN, of Terre Haute. The road is 7,920 ft. in length.

ELKHART, IND.—Bids will be received until 10 a. m., Feb. 20, for constructing 21,000 sq. yds. of standard pavement. A. M. Smith is City Engr. and B. I. Bixler, City Clk.

FOWLER, IND.—Bids will be received by the Commissioners of Benton County until 1 p. m., Mar. 6, for the construction of three stone roads in Benton County. Lemuel Shipman is County Audr.

HARTFORD CITY, IND.—The Commissioners of Blackford County have awarded a contract to CHARLES CLAMME for the construction of the county line road. The road is 21,120 ft. long.

HUNTINGTON, IND.—Bids will be received by the Commissioners of Huntington County until Mar. 6, for the construction

of a gravel road, known as the Wisner Road in Dalas Township. The highway is 4,860 ft. long and is to be 40 ft. wide, the grade portion 24 ft. wide, and the gravel 10 ft., and 10 ins. in depth. John W. Weaver is County Audr.

JEFFERSONVILLE, IND.—Bids will be received by the Commissioners of Clark County until 10 a. m., Mar. 6, for the construction of a gravel road in Owen, Bethlehem and Washington Townships. Peter Nachand is County Audr.

LOGANSPORT, IND.—Bids will be received until April 1 for constructing approximately 50,000 sq. yds. of sheet asphalt at an estimated cost of $100,000. H. H. Thompson is City Engr., and William Pickett City Clk.

MOUNT VERNON, IND.—We are officially advised that the contract for constructing two miles of gravel road in Robb Township was awarded, on Feb. 8, to STEPHEN A. GANO, of Mount Vernon, at $6,791.

MUNCIE, IND.—Bids will be received until Mar. 11, for paving various streets. Estimated cost, $23,800. B. F. Deardorf is City Engr., and J. Kelly, City Clk.

ROCKVILLE, IND.—Bids will be received by the Commissioners of Parke County until 1 p. m., Mar. 6, for the construction of a gravel road in Liberty Township. James E. Elder is County Audr.

RUSHVILLE, IND.—We are officially advised that the contract for constructing a macadam road in Ripley Township was awarded, on Feb. 7, to SMITH & PIERCE, Zionsville, Ind., at $9,775.

TIPTON, IND.—Contracts for constructing county roads have been awarded to: BARNES & GRANEL, of Logansport, Ind., at $5,714; BROWN & HINES, of Tipton, Ind., at $7,198; ISAAC COX, of Tipton, at $6,387.

ALGONA, IOWA.—Bids will be received by B. E. Norton, County Audr. of Kossuth County, until 2 p. m., Feb. 21, for grading in the County.

DES MOINES, IOWA.—We are officially advised that plans are being prepared for laying 14,000 sq. yds. of creosote block and 30,000 sq. yds. of asphalt. Horace Susong is City Clk.

ST. PAUL, MINN.—The Board of County Commissioners has awarded the contract for macadamizing Mound View and Bald Eagle roads to GUS HANE, White Bear, Minn., at $5,437, and for claying and graveling Lexington Ave. extension, to GEORGE B. NIENABER at $7,735. The following bids were taken under consideration: Rice St., macadam, Thornton Bros., $6,000; O'Neil & Preston, $8,000. Bald Eagle and Hugo Road, macadam, Thornton Bros., $11,887; William Devine, $11,935; O'Neil & Preston, $12,900, and J. P. Ryan, $13,853. Barlow Road, clay and gravel, William Devine, $9,535; J. P. Ryan, $11,000, and O'Neil & Preston, $18,000; Centreville Road, macadam, George Nienaber, $16,230; William Devine, $17,800; Thornton Bros., $18,887; Keough Bros., $18,900; J. P. Ryan, $21,000, and O'Neil & Preston, $24,420. Geo. J. Ries is County Audr.

TOPEKA, KAN.—About 70 blocks will be paved this spring, 24 with brick and the balance with asphaltic concrete. W. Fulton is City Engr.

HILLSBORO, TEX.—A contract has been awarded to OCKANDER BROS., of Temple, for paving various streets in the business district, at $1.95 per sq. yd. Hassam concrete is to be used.

SWEET WATER, TEX.—Bids will be received by L. S. Polk, City Secy., until Mar. 4, for constructing 22,000 sq. yds. macadam asphalt street paving. Plans and specifications are on file with the City Engineer.

SAPULPA, OKLA.—We are officially advised that plans are being prepared, and bids will soon be received, for constructing 100,000 sq. yds asphalt pavement. Ira J. Anderson is City Clk.

WENATCHEE, WASH.—We are officially advised that the contract for grading and surfacing with gravel and concrete the sidewalks of Okanogan Ave. has been awarded to the COLUMBIA ENGINEERING & CONTRACTING CO., at $22,989. The other bidders were: Eagle Livery & Transfer Co., $25,002; J. J. McKerney, $23,828; M. Jennings, $24,235. Noted on Jan. 12.

SAINT JOHNS, ORE.—Bids will be received by A. M. Esson, City Representative, until Feb. 23, for constructing several hard surface streets.

CHICO, CAL.—The contract for macadamizing six miles of streets has been awarded to the CHICO CONSTRUCTION CO., at $25,000. The contract includes over 50,000 lin. ft. of curbing and will require over 1,000 car loads of gravel.

LOS ANGELES, CAL.—The Board of Public Works, has awarded a contract to GEO. H. OSWALD for improving Wilson Ave., from Vine St. to La Brea St. at $15,813. The item prices were: $650 for reinforced concrete culvert at Townsend Ave.; $150 for vitrified pipe culvert at Seward St.; $230 for vitrified pipe culvert at Estelle St.; $1.50 per lin. ft. for grading and graveling and oiling; 30 cts. per lin. ft. for cement curb; 12 cts. per sq. ft. for cement gutter; 30 cts. per sq. ft. for vitrified block gutter; $300 for vitrified pipe culvert at Citrus Ave.; $395 for vitrified pipe at Orange Ave.

LOS ANGELES, CAL.—The City Engineer is preparing plans for the improvement of Alhambra Ave. from Mission Road to the city limits, a distance of about 16 blocks. The roadway will be 50 ft. wide, paved with asphaltum, and with 25 ft. parkways. Homer Hamlin is City Engr.

OCEANPARK, CAL.—Bids will be received by G. G. Watt, City Clk., until Feb. 20, for grading 6th and Electric Aves.

POMONA, CAL.—LOUIS FERRELL was awarded contract for oil macadam pavement on Holt Ave., at 9¼ cts. per sq. ft. oil macadam, 11 cts. per sq. ft. gutters, and $5.75 per lin. ft. culverts.

SAN JOSE, CAL.—Surveys and plans have been prepared for street improvements to cost $40,000.

RIVERSIDE, CAL.—We are officially advised that the contract for macadamizing 1⅝ miles of the Box Springs Canyon Road was awarded on Feb. 8 to OSCAR FORD at $15,275. Noted on Feb. 2.

JOLIETTE, QUE.—Bids will be received by Eugene Fiset, Deputy Minister of Militia and Defense, until noon, Feb. 21, for laying cement walks, making a roadway and runway for carts at the armory.

MANUFACTURING PLANTS.

STRATFORD, CONN.—It is reported that the Baird Machine Co. plans to move its plant from Oakville to Stratford. Plans are now being prepared for the erection of buildings which are to be of brick construction. The estimated cost of the proposed improvements is $100,000.

WATERBURY, CONN. — The Steele & Johnson Mfg. Co. has recently awarded contracts for a 4-story brick addition, 40 × 105 ft., to the factory buildings, to the GEORGE S. CHATFIELD CO., for the mason work and the TRACY BROS. CO., for the carpenter work.

BUFFALO, N. Y.—George Laub & Sons, tanners, 1051 Clinton St., have awarded contract to the TURNER CONSTRUCTION CO., Prudential Bldg., for the erection of a 5-story addition, 120 × 120 ft., to its plant at Clinton St. and Erie R. R. It will be of reinforced concrete construction, with a concrete roof.

ALLENTOWN, PA.—Callahan & Myers, shoe manufacturers, Franklin and Scott Sts., have purchased a lot at the southwest corner of 14th and Liberty Sts., for the purpose of establishing a shoe factory, it is stated.

NEW BETHLEHEM, PA.—The New Bethlehem Fabric Mfg. Co., of which C. H. Luke is Pres., and G. W. Leach, Secy., and Treas., have purchased a site for a factory which will be erected early in the spring.

NEW KENSINGTON, PA.—A contract has been let to the UNITED CONSTRUCTION Co., of St. Louis, Mo., by the National Lead & Oil Co., for the construction of an extension to the plant of the Sterling White Lead Co., a subsidiary concern here. The work will be begun soon and will be done so that the operation of the plant will not be interfered with. The cost is $80,000, according to reports.

PHILADELPHIA, PA.—The P. HAIBACH CO., 26th and Thompson Sts., has been awarded the contract to build a 1-story machine shop, 100 × 150 ft. at the southwest corner of 50th St. and Parkside Ave., for the S. S. Wenzell Co. Cost, $27,000.

It is reported that HENRY E. BATON, 1221 Arch St., has been granted permits for tank buildings, 53 × 46 ft., and 38 × 32 ft.; a storage building, 46 × 174 ft. and a dryer building, 62 × 54 ft. at the plant of the Penn Reduction Co. at 49th St., and the Schuylkill River. The cost will be $22,500.

It is stated that an organization to be known as the American Artificial Silk Co., will soon be incorporated under the Pennsylvania laws, to manufacture artificial silk here. Plans have been prepared for a building 475 × 187 ft. to be erected in the southern part of the city.

CANTON (Baltimore post-office), MD.—The Miller Fertilizer Co. has awarded to the PETERS & HARDING CONTRACTING & BUILDING CO., 15 East Fayette St., Baltimore, the contract for alterations and additions to its works at Canton. The work involves the remodeling of the plant and includes equipment with modern machinery, hoist, elevators and conveyors. Painter & Posey are the Consulting Engrs., and Theodore Wells Pietsch, American Bldg., is the Arch.

YORKTOWN, VA.—We are officially advised that the contract to erect a factory here for the Yorktown Chemical Works, a company recently incorporated under the laws of Virginia, has been awarded to the AMERICAN CEMENT ENGINEERING CO., 315 Fifth Ave., New York. F. H. Johnson is Pres. of the new organization, which has a capital of $300,000. The building will cost between $125,000 and $130,000.

MONTICELLO, GA.—The Jasper Cotton Mills has changed its name to the Castle Cotton Mills, increased capital stock from $200,000 to $1,000,000 and organized with William T. Lang of West Point, Ga., as Pres. and Gen. Mgr. It will build a plant of 50,000 spinning spindles, 5,000 twister spindles, 1,200 looms, etc., driven by electricity from transmission lines of Central Georgia Power Co., of Macon. About 5,000 HP. at 66,000 volts will be required. Construction work will begin soon.

MERIDIAN, MISS.—A. J. Lyon & Co. plan to establish a cold-storage plant, it is reported, to cost $30,000.

NEW ORLEANS, LA.—Contracts will soon be awarded by the Folk-McMahon Wireless Telegraph & Telephone Co. for the construction of a 4-story brick and steel structure. The estimated cost of the building is $20,000, and equipment, $15,000. H. L. Folk is Vice-Pres.

KNOXVILLE, TENN.—Plans are being prepared by R. F. Graf & Sons, Archs., of Knoxville, for the construction of a 4-story factory for the Greenwood Advertising Co. It will be of red pressed brick, mill construction, on a site 60 × 141 ft. Cost, $15,000.

PORTSMOUTH, OHIO.—J. M. Stockham has been granted a building permit by the Service Department for the erection of an addition to the plant of the Stockham Coal & Produce Co., to cost $20,000.

DALEVILLE, IND.—A button factory is contemplated here by Claude and C. C. Lefter, to be erected in the spring.

KNIGHTSTOWN, IND.—The Knightstown Ice Co. has been incorporated to build a plant for manufacturing ice. P. W. and M. I. Gilbreath and A. A. McCray are Dirs.

BATTLE CREEK, MICH.—M. J. Moreyousa, 277 Dearborn St., Chicago, Ill., has about completed plans for a 5-story factory building, 63 × 150 ft., for the Kellog Corn Flake Co., of Battle Creek. The architect will receive estimates.

DETROIT, MICH.—The Detroit Wheel Co. has been incorporated, with a capital of $100,000, the incorporators being Charles R. Chesholm, Adolphus Weir and Fred. A. Sweitzer, all of Detroit. The company will build a factory in Detroit for the manufacture of a new type of auto wheel.

The Marsh Trusses Pneumatic Tire Co., care of Francis T. Dwyer, Chene and Guein Sts., Detroit, has been incorporated, with a capital of $30,000. The company will erect a factory.

The Mobile Windshield Top Co., care of Eugene Dupont, 64 Randolph St., Detroit, has been incorporated and will erect a factory in Detroit soon.

Baxter & O'Dell, Hammond Bldg., are preparing plans for a 3-story and basement factory, 67 × 138 ft., for the J. E. Scripps Corporation, William E. Scripps, Secy., 65 Shelby St., to be constructed of enamel and stock brick and Bedford stone, with a composition roof, galvanized iron skylight and cornice, structural iron and electrical fixtures. The factory is to be located on Congress St., West. Cost, $35,000.

DETROIT, MICH.—Donaldson & Meier, Archs., and Ammerman, McColl & Anderson, Engrs., Penobscot Bldg., have awarded the following contracts for the 7-story and basement addition, 80 × 100 ft., to the present factory of the Uingree Shoe Co., S. L. Depew, Secy., 102 Jefferson Ave. West.: Structural work let to the DETROIT BRIDGE & STEEL CO., South Dearborn St. and Michigan Central R. R.; masonry and carpentry to the A. J. SMITH CONSTRUCTION CO., Hammond Bldg.; composition roofing to the DETROIT CORNICE & SLATE CO., 147 St. Antoine St.; plumbing to JACOB ZERGA, 78 Larned St.; painting to the VINTON CO., 120 Woodbridge St. East. Cost, $100,000.

HAMTRONICK, MICH.—Varney, Winter & Varney, Equity Bldg., Detroit, have awarded the following contracts for the 3-story factory addition, 220 × 255 ft., for the Briggs Mfg. Co., Station "F," Detroit, the factory to be located in Hamtramck: Masonry let to FRANK M. COOPER, Penobscot Bldg.; carpentry to THEODORE MERCIER, 257 McDougal Ave.; structural iron work to H. B. LEWIS, 45-57 Joseph Campau Ave.; composition roofing to J. D. CANDLER & CO., 176 High St. East; painting to WILLIAM DIETRICH, 680 Gratiot Ave. Cost, $60,000.

ARGO, ILL.—According to reports, the Corn Products Refining Co. will expend $1,500,000 to enlarge the present plant to a capacity 30% larger than those at Waukegan, Ill., and Edgewater, N. J. The enlarged plant will have a capacity of 40,000 bushels of corn daily.

COLUMBUS, WIS.—A $100,000 malt house will be erected by John H. Kurth & Co., maisters and bottlers of Columbus, at Burnham St. and Kinnickinnie Ave., adjoining the railroad tracks. According to reports, the plant will have a capacity of 2,400 bushels of grain a day. The main building will be 100 × 123 ft. in size, and six stories high. The officers of the company are: John Kurth, Pres.; Christian Kurth, Secy. and Mgr., and Anton Kurth, Treas.

MARINETTE, WIS.—The Menominee River Sugar Co. contemplates establishing a pulp drying plant at an estimated cost of $125,000, it is stated.

SIOUX CITY, IOWA.—An independent packing plant to cost $125,000 is to be erected over the ruins of the old Sioux City Packing Co., which was recently destroyed by fire, located at Chambers and Floyd Sts. Work is to begin as soon as the plans are completed. The plant will have a slaughtering capacity of 2,000 hogs daily and 300 cattle. The main building, or hog house, will be 80 × 100 ft. and will have three stories and basement. The beef house will be 100 ft. square and have two stories and basement. Charles Gates is Pres. and D. B. Stevens, Secy. and Treas., both of Sioux City.

HOUSTON, TEX.—George Gwilt, of Vernon, B. C., will install a clay-working plant near this place. Glazed ware and pressed brick will be manufactured. Mr. Gwilt recently purchased 800 acres of clay land, from which his supply of raw material for the proposed plant will be obtained, it is reported.

TEXARKANA, TEX.—Paul E. Williams, of Paris, and James Hubbard, are organizing a concern to be known as the Williams-Hubbard Peanut Co., with a capital stock of $20,000, and plans to erect a peanut factory with a daily capacity of 1,000 bushels. Cost, $10,000.

OKLAHOMA CITY, OKLA.—The Oklahoma Light Mfg. Co. plans to construct a plant to manufacture acetylene and other gas lights and fixtures. It will be two stories high, 25 × 100 ft., and will cost $25,000.

PAWHUSKA, OKLA.—According to reports the Chamber of Commerce has contracted with James McKittrick and associates of Sandusky, Ohio, to build a 30-blower window glass factory at Pawhuska at a cost of $65,000. It will employ 150 experienced men for approximately seven months in the year.

TULSA, OKLA.—The Tulsa Glass Mfg. Co. plans improvements to cost in the neighborhood of $250,000, and the addition of from 50 to 75 men to the working force, according to an announcement made by George D. Carney, Secy. and Treas., recently. The first change to the plant will be the erection of a new furnace, which will be used in the manufacture of white glass globes.

PUEBLO, COLO.—The Wall Fogless Switch & Mfg. Co., has been organized with a capitalization of $1,000,000 for the purpose of erecting a plant here. Construction will soon start.

SALT LAKE CITY, UTAH.—A 40-acre site has been selected by the Griffin Wheel Works for the erection of an extensive factory. According to reports, the company anticipates investing over $2,000,000 in the improvements.

ANTIOCH, CAL.—The California Powder Co., organized some time ago, with a capital of $1,500,000 recently purchased 100 acres of land east of Antioch, on w[illegible] a manufacturing plant to cost $100,000 [illegible] be erected. Ex-Sen. Charles M. Belsh[illegible] is interested.

REDONDO, CAL.—The Warm[illegible] Steel Casting Co., Los Angeles, has been [illegible] corporated with a capital stock of $50,000 [illegible] The directors are: G. B. Warman, N. [illegible] Warman, N. C. Heron, R. W. Ellis and [illegible] W. Foote. The company is contemplating [illegible] erection of a steel manufacturing plant [illegible]

SAN BERNARDINO, CAL.—[illegible] Development & Securities Co., of which [illegible] H. Collins of Long Beach is Mgr., will e[illegible] a plant here for making cement and re[illegible]ced concrete posts and will construct a [illegible],000 rock crusher near this city. They will [illegible]stablish a quarry on land which they hav[illegible] purchased between Redland and Highland, [illegible] stated.

OTTAWA, ONT.—The Grand [illegible]nk Ry. Co. has completed arrangements [illegible] extensive improvements to be made in this city the coming summer involving the [illegible]nditure of a large amount of money and [illegible] complete rebuilding of the company's [illegible] shops, machine shops and round hous[illegible] J. H. Johnston, of Ottawa, is Master [illegible] Bridges and Buildings.

MOOSEJAW, SASK.—The Sask[illegible]hewan Flour Mills Co. with a capacity [illegible] 1,000 bbls. per day will increase its c[illegible]city to 2,000 bbls and will erect an oat[illegible] mill with a daily capacity of 600 bbls.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation proje[illegible] etc., will be found under Water Supply [illegible]rrigation.

ADDITIONS TO STOREHOUSE [illegible] Fort Strong, (Boston post-office), MASS. [illegible] will be received until 1 p. m., March 16, by Capt. A. M. Miller, Constr. Q. M., U. S. [illegible] 203 Summer St., Boston, Mass., for the construction complete of a frame addition [illegible] ordnance storehuose at Fort Strong.

ROAD OIL.—Boston, Mass.—See item under Streets and Roads.

FERRYBOAT.—Boston, Mass.—Bids will be received until March 7 by Louis K. Rourke, Comr. Pub. Wks., for a double-screw ferryboat.

BAY IMPROVEMENTS.—New York, N. Y.—The Board of Estimate on Feb. 9 voted $950,000 to carry on the work of improving Jamaica Bay.

DREDGING.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until Feb. 20 for furnishing material and dredging in the Boroughs of Manhattan, Brooklyn, Queens and Richmond, per Contract No. 1263.

METALLIC CASE SECTIONS, ETC.—New York, N. Y.—The contract for metallic case sections, in the County Clerk's office, Court House, has been awarded to the CANTON ART METAL CO., of Canton, Ohio, at $29,[illegible] 627.

*DREDGING, ROCK REMOVAL.—New York, N. Y.—Bids will be received until noon, March 15, by Col. W. M. Black, Corps Engrs., U. S. A., for dredging and rock removal in Bronx River, N. Y.

LUMBER TRAP ROCK.—New York, N. Y.—Bids will be received by the Park Board Dept. of Parks, until 3 p. m., Feb. 23, for furnishing and delivering lumber to parks and parkways in the Boroughs of Brooklyn and Queens; and for furnishing and delivering crushed trap rock and trap rock screenings to parkways in the Borough of Brooklyn.

PICKET FENCES, New York, N. Y.—Bids will be received until 3 p. m., Feb. 23, by the Park Board, Dept. of Parks, for furnishing all labor and material necessary for the construction of w.-i. picket fences around Bushwick Park, Amersfort Park, and Fulton Park, Boro. Brooklyn, together with all the incidental work.

REPAIRS TO LAWN MOWERS, PIPE FENCES.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., Feb. 23, for repairs to lawn mowers of the Department of Parks, Boroughs of Manhattan and Richmond, and for furnishing and erecting 3-rail pipe fences in Colonial Park, between 150th and 155th Sts.

ROAD GRAVEL, MOULD.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., Feb. 23, for furnishing and delivering Hudson River road gravel in parks and on parkways in the Boros. Brooklyn and Queens, and for furnishing and delivering organic mould at Prospect Park, Boro. Brooklyn.

METAL VAULT LININGS, ETC.—New York, N. Y.—Bids will be received until 3 p. m., March 3, by James Knox Taylor, Superv. Arch., Washington, D. C., for metal vault linings, doors, etc., in the extension to the U. S. Assay Office, New York.

FIRE APPARATUS.—New York, N. Y.—Bids will be received until 10.30 a. m., Feb. 27, by R. Waldo, Fire Comr., for furnishing and delivering two automobile hose wagons, and two 1½-ton motor trucks.

FIELD WIRE.—Washington, D. C.—Bids will be received until Feb. 27 by Capt. A. S. Cowan, Signal Corps, U. S. A., Pur. Officer, Washington, for 300 miles of field wire, [illegible] strand, on spools in lengths of 2,640 f[illegible] spools to be furnished by the signal corps.

ENGINE HOUSE.—Washington, D. C.—The contract for constructing an engine house at Pennsylvania Ave. and 28th St., N. W. has been awarded to A. T. HOWISON, of Washington, D. C., at $22,600.

VAULTS.—Washington, D. C.—Bids will be received until 3 p. m., Feb. 20, by James Knox Taylor, Superv. Arch., Treasury Dept. Washington, for the construction complete of the money vault for the U. S. Bureau of Engraving and Printing Building, Washington; also for construction of the stamp vault and plate vault complete. Copies of drawings and specifications may be obtained at the office of the Supervising Architect or at the office of Frederick S. Holmes Engr. and Supt., 2 Rector St., New York.

STEEL, BRASS, ETC.—Washington, D. C.—Bids will be received until Feb. 21 at the Bureau of Supplies and Accounts, Navy Dept., Washington, for furnishing at the navy yards and naval stations the following supplies: Mare Island, Cal.—Schedule 3290, 6,350 lbs. cold rolled machinery steel, 97,000 lbs. medium steel; Schedule 3293, 6,500 lbs. brass rod, 6,300 lbs. sheet brass, 3,100 lbs. soft rolled sheet copper, 9,500 lbs. seamless drawn brass pipe; Schedule 3294, bushings, couplings. Puget Sound, Wash.—Schedule 3294, [illegible] ft. brick. Philadelphia, Pa.—Schedule 3310, hydraulic turning gears; Schedule 3329, 3,000 ft. steel or w.-i. pipe, 15,000 lbs. sheet zinc; Schedule 3330, 2,000 lbs. round naval brass. Brooklyn, N. Y.—Schedule 3330, 14,000 lbs. naval rod brass; Schedule 3329, Class A, bar steel; Schedule 3327, 7,000 lbs. galvanized sheet steel, 2,700 lbs. cold rolled rod steel; Schedule 3332, brass pipe fittings; Schedule 3326, 6,300 ft. steel tubing; Schedule 3332, brass valves, gate valves; Schedule 3331, 22,000 ft. interior communication cable, 20,000 ft. telephone cord, 100,000 ft. bell wire, 35,000 ft. single conductor wire, 155,000 ft. twin conductor wire; Schedule 3323, 100 M. ft. white hemlock. Newport, R. I.—Schedule 3313, 40 20-HP gasoline engines; Schedule 3317, 1,200 lbs. cold and sheet brass; Schedule 3318, 9,500 lbs. forging steel, 6,100 lbs. cold rolled machine steel, 9,650 lbs. hot rolled machine steel, 3,450 lbs. hot rolled plate steel. Boston, Mass.—Schedule 3311, turret turning gears; Schedule 3327, 36,650 lbs. medium plate steel. Washington, D. C.—Schedule 3300, two boring bars; Schedule 3318, 119,500 lbs. hot rolled or forged steel. Charleston, S. C.—Schedule 3326, 2,000 lbs. sheet lead; Schedule 3327, 1,700 lbs. steel bars, Class B; Schedule 3327, 4,500 lbs. galvanized plate steel. Portsmouth, N. H., Schedule 3327, 21,000 lbs. black steel angles, 35,500 lbs. medium plate steel. Applications for bids should designate the schedules desired by number.

LEVEE WORK. — Alexandria, La.—The contract for building the new levee on Bayou Rapides from the D. W. Hynson place to the Heyman place, has been let by the State Board of Engineers, New Orleans, to J. R. BOBBITT, at 14 1-3 cts. per cu. yd. There are 60,000 cu. yds. in this new levee. The Hatch levee on the Red River about 20 miles below this city comprising about 13,000 cu. yds. has been let by the State Board of Engineers to CHARLES MARTIN, at 13.73 cts. per cu. yd. Work on both of the above pieces of levee will be begun as soon as possible.

RETAINING WALL.—Cincinnati, Ohio.—Bids will be received at the office of the Board of County Commissioners until noon, Mar. 3, for the following county work: Under Specification No. 161, for the building of a retaining wall on the Loveland and Madeira Road, near Symmes Station, in Symmes Township.

STEEL CEILINGS.—Columbus, Ohio.—The Board of County Commissioners will receive bids until March 13 for the labor and materials necessary to construct steel ceilings in the main building at the county infirmary.

COPPER ROOF.—Franklin, Ind.—The Commissioners of Johnson County will receive bids until April 3 for putting a new copper roof on the court-house. W. B. Jennings is Audr.

DITCH.—Frankfort, Ind.—Bids will be received until Feb. 18 by Martin V. Unger, Drainage Comr., for constructing the William Kinnaman Ditch.

DOCKS.—Michigan City, Ind.—The Board of Public Works received bids on Feb. 7 for the construction of extensive docks along the harbor. The contract has been awarded to the FITZ-SIMONS & CONNELL CO., Chicago, Ill., at $17.45 per lin. ft. The Great Lakes Dredge & Dock Co. bid $17.70.

PASSENGER STEAMER.—Detroit, Mich.—The Detroit & Cleveland Navigation Co. has awarded the contract to the DETROIT SHIPBUILDING CO. for the construction of a steel passenger steamer; length over all, 470 ft.; molded breadth, 55 ft.; width over guards, 93 ft.; molded depth, 22 ft.; steel construction throughout. The equipment will include bow and stern rudders, elevator service and wireless telegraph. New features will be a palm court on the upper deck and a number of private dining rooms in addition to the main dining room.

DRAINAGE DITCHES.—Newton, Ill.—Bids will be received until Feb. 18, by the Drainage Commissioners of Mint Creek Drainage District, Newton, for the construction of ditches in Mint Creek Drainage District, consisting of excavating about 3¼ miles of open ditches, 4 to 6 ft. wide at bottom, 16 to 24 ft. wide at top, and 5 to 9 ft. deep, about 50,000 cu. yds. This work is two miles west of Falmouth. S. A. Connor & Son are Engrs., Newton.

*PONTONS.—Rock Island, Ill.—Bids will be received until 2 p. m., March 14, by Maj. C. Keller, Corps Engrs., U. S. A., Rock Island, for building and delivering 40 steel pontons, complete.

STOREHOUSE.—Rock Island, Ill.—Bids will be received by Lt.-Col. F. E. Hobbs, U. S. A., Ordnance Dept., until 2 p. m., Mar. 7, for the erection of a storehouse at Rock Island Arsenal.

DITCH.—Clinton, Iowa.—The Clinton County Board of Supervisors has awarded the contract to ADOLPH WENDEL, of Colamus, Iowa, for the construction of the Dubois ditch.

ROOF, ETC.—Des Moines, Iowa.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Mar. 14, for a roof over driveway (including plumbing, gas piping, electric conduits and wiring), and lighting fixtures at the United States post-office at Des Moines, in accordance with the drawings and specification, copies of which may be had at the office of the Supervising Architect, this office, or at the office of the Custodian at Des Moines, at the discretion of the Supervising Architect.

DITCHES.—Bemidiji, Minn.—J. L. George, County Audr., received bids on Feb. 4 for the construction of judicial ditch No. 4, about twelve miles long, requiring about 63,000 yds. of excavation. Estimated cost, $15,000, of which the road and bridge work will be about $3,200; also for the construction of judicial ditch No. 3, 15 miles long, comprising 81,000 yds. of excavation. Estimated cost, $19,000, including about $4,000 for bridge and road work. The contract has been awarded to H. F. BOSWORTH & CO., of Bemidji, at $30,785.

DITCHES.—Clay Center, Kan.—Bids will be received by the Commissioners of Ditches until 6 p. m., Feb. 17, at the office of Henry W. Stackpole, Engr., Clay Center, for the construction of the proposed ditch 1½ miles north of Morganville, and of the proposed ditch one-half mile north of Morganville, according to the plans, specifications and field notes on file at the office of the engineer. James Iams and F. J. Mall are Comrs.

CEMENT.—Leavenworth, Kan.—Bids will be received until 10 a. m., March 3, by R. V. Ladow, Supt. of Prisons, Dept. of Justice, Washington, D. C., for furnishing and delivering at the U. S. penitentiary, at Leavenworth, 2,500 bbls. of natural cement and 8,000 bbls. of Portland cement.

FREIGHT VESSEL.—Longbeach, Cal.—The contract for the construction of a steel freight vessel has been awarded to the CRAIG SHIPBUILDING CO., of Longbeach, at about $250,000. J. F. Craig is Gen. Mgr.

GRANITE STEPS.—Los Angeles, Cal.—The Board of Supervisors will receive bids until 2 p. m., March 6 for the construction of granite steps to the grounds of the County Court House and Hall of Records. H. J. Lelande is County Clk.

ELEVATOR.—Los Angeles, Cal.—The Board of Supervisors will receive bids until 2 p. m., March 6, for furnishing and installing a passenger elevator in Surgical Ward Building at the County Hospital at Daly and Mission Sts. H. J. Lelande is County Clk.

LEVEES, DREDGING.—Oakland, Cal.—Bids will be received until 5 p. m., Feb. 24, by the City Council, for constructing levees in the "Key Route Basin"; also a levee along the extension of 14th St.; and for dredging a channel along the pierhead line on the west side of the north run of Oakland Harbor. Frank R. Thompson is Clk.

LIST OF CONTRACTS PENDING.

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
2-24*	Earthwork, Belle Fourche, S. Dak.	(S)12-29

Light, Heat and Power Plants.

Bids close.		Noted in issue of
2-16	Elec. light poles, North Toronto, Ont.	2-16
2-17*	Underground conduits, Westfield, Mass	2- 9
2-20	Lamp posts, Calgary, Alta.	2-16
2-22	Conduit work, Winnipeg, Man.	2-16
2-23	Miscellaneous electrical equipment, Dalton, Ga	2- 9
2-23	Lighting plant, Wymore, Neb.	2- 9
2-23	Fixtures, Washington, D. C.	2- 2
2-28	Electric light plant, Parkersburg, W Va.	2-16
2-28	Elec. light plant, Parkersburg, W. Va.	2-16
3- 1	Gas plant, Monterey, Mex.	1-26
3- 1	Engines, generators, Strathcona, Alta	2- 9
3- 1	Power plant, Fort Mason, Cal.	2-16
3- 7	Lighting system in post-office, Keokuk, Iowa	2-16
3- 8	Fixtures, Cleveland, Ohio	2- 2

Bridges.

Bids close.		Noted in issue of
2-18	Span, Denver, Colo	2- 9
2-20	Culverts, Hallock, Minn	2- 9
2-20	Bridge, San Jose, Cal.	2-16
2-23	Bridge work, Columbus, Ohio	2- 2
2-25	Bridges, Dauphin, Man.	2-16
2-27	Bridge, Yankton, S. Dak.	2-16
2-27	Bridge, Lorain, Ohio	2- 9
2-28	Bridge, Springfield, Ohio	1-26
2-28	Bridge, Boston, Mass.	2-16
3- 1	Superstructure, Danville, Va.	2-16
3- 2*	Bridge, Kingston, N. Y.	2- 2
3- 4	Bridge, Lanark, Ont.	2-16
3- 6	Bridges, White Plains, N. Y.	2-16
3- 6	Draw-bridge, Port Clinton, Ohio.	2-16
3- 6	Arches, etc., Los Angeles, Cal.	2- 2
3- 7	Bridges, Janesville, Wis.	2-16
3-15	Bridge, Clinton, Ark.	2-16

Buildings.

Bids close.		Noted in issue of
2-18	Storehouse, Ft. H. G. Wright, N. Y.	2- 2
2-18*	Post office, North Yakima, Wash.	1-19
2-18	Apartments, Calgary, Alta	2- 9
2-18	Bldg., Calgary, Alta	2- 9
2-18	Hotel, Oswego, N. Y	2- 9
2-18	Bldg., Richmond, Va.	2-16
2-18	Bldg., Toronto, Ont.	2-16
2-20	Post office, etc., Big Stone Gap, Va.	1-19
2-20	Bldg., Grand Forks, N. Dak.	2- 2
2-21	School, Freeport, Ill.	2- 2
2-21	Court-house, Vancouver, B. C.	2-16
2-23	School, Emery, S. Dak.	2- 2
2-23	Erection of bldg., etc., Murphysboro, Ill.	1-19
2-23	Federal Bldg., Roswell, N. Mex.	2- 9
2-24	School, Indianapolis, Ind.	2- 9
2-24	Bldg., Wilkes-Barre, Pa.	2-16
2-24	Library bldg., North Manchester, Ind.	2-16
2-24	Alterations in hospital, New York, N. Y.	2-16
2-27	High school, Pittsburg, Pa.	2-16
2-27	Improv. to high school, Baltimore, Md.	2-16
2-28	Hospital, Fort Missoula, Mont.	2- 9
3- 1	Church, Pendleton, Ore	2- 9
3- 1	School, Cleveland, Ohio	2- 9
3- 1	School, Glidden, Wis.	2- 2
3- 2	School, Bedford, Ind.	2-16
3- 3	School, Ashland, Ore	2- 9
3- 7*	Hospital, New London, Conn.	2- 9
3- 8	Post-office, Brookhaven, Mass.	2- 2
3-15	Bldg., Merril, Wis.	2-16
3-15*	Erection of bldgs., Fort Andrews, Mass.	2-16
4-15	Plans, Havana, Cuba	10-20

Water-Works.

Bids close.		Noted in issue of
2-17	Pumping station, North Bend, Neb.	1-26
2-17	Watermains, Nottingham, Ohio	2- 9
2-20	C. I. pipe, Fergus Falls, Minn.	2- 9
2-20	Water supply, Mont Laurier, Que.	2- 9
2-20*	Machinery, etc., Marshalltown, Iowa	2- 9
2-20	Water system, Madera, Cal.	2- 2
2-20	Pumping engine, Sparta, Wis.	2-16
2-20	Water-works bldg., Spokane, Wash.	2-16
2-21	Water pipe, Los Angeles, Cal.	2-16
2-21	Pipe, hydrants and valves, Georgetown, Tex.	2-16
2-21	Pumping engine, Coshocton, O.	2- 2
2-21	Wood pipe, etc., Colville, Wash.	2- 2
2-23	W.-Works materials, etc, Dalton, Ga.	2- 9
2-23	Water plant, Wymore, Neb.	2- 9
2-23	Standpipe, etc., Parkersburg, W. Va.	2-16
2-24*	Earthwork, Belle Fourche, S. Dak.	12-29
2-25	Water-works, Battle Creek, Neb.	2-16
2-27*	Water plant, Akron, Pa.	2-16
2-27	Water main, Euclid, Ohio	2- 9
2-27	Water-works improv., Gainesville, Ga.	2-16
2-28*	Reservoir, etc., Ft. Terry, N. Y.	2- 2
2-28	Pipe, etc., St. Catherines, Ont.	2-16
3- 1	Water-works, Apple River, Ill.	2-16
3- 1	Pump, etc., Coraopolis, Pa.	2-16
3- 1	Completing dam, etc., Green River, Utah	2- 2
3- 1	Water-works, Atlantic, Iowa	1- 5
3- 1	Water supply, Chaffee, Mo	2- 9
3- 2	Reservoir, etc., Harlowtown, Mont	2-16
3- 3	Gate valves, etc., Victoria, B. C.	2- 9
3- 6	Tank and Tower, Bridgewater S. Dak	2- 9
3- 6	Main, Sheridan, Wyo.	2- 2
3- 7*	Filters, etc., Ogdensburg, N. Y.	2- 9
3- 7	Water-works, Rockmart, Ga.	2-16
3- 7	Well, McComb, Miss.	2-16
3-10	Diversion channel, Klamath Falls, Ore.	2-16
3-10	Water mains, Fort Andrews, Mass	2-16
3-10	Well, Vermillion, S. Dak.	2-16
3-10*	Reservoir embankment, Hornell, N. Y.	2-16
3-11	Water mains, Troy, Ohio	2-16
4- 1	Water-works, West Telford, Pa.	2- 2

Sewers.

Bids close.		Noted in issue of
2-17	Sewers, St. Louis, Mo	2- 9
2-17	Sewers, Cincinnati, Ohio	2- 9
2-20	Sewers, Huntington, W. Va.	2- 2
2-20*	Pump pits, Charleston, S. C.	2- 9
2-21	Sewers, Mt. Vernon, Iowa	2- 2
2-21	Sewer, Clarinda, Iowa	2- 2
2-21	Sewer, Melrose, Minn	2- 9
2-21*	Sewers, Clinton, Okla.	2- 9
2-23	Sewer, Baltimore, Md	2- 9
2-23*	Sewers, Paris, Ill.	2- 2
2-24	Sewers, Hastings, N. Y.	2- 2
2-27	Sewers, New York, N. Y.	2-16
2-27	Sewers, Oakley, Ohio	2-16
2-28	Sewers, Cleveland, Ohio	2- 2
2-31	Sewers, Solvay, N. Y.	2- 2
3- 3*	Sewers, Watertown, N. Y.	2- 9
3- 3*	Sewers, Bement, Ill.	2-16
3- 7*	Sewers, Bridgeton, N. J.	2-16
3- 9*	Sewers, Pocatello, Idaho	2-16
3-14*	Sewer, Atlanta, Ga.	2-16
3-16	Sewer system, Rector, Ark.	2- 2

Streets and Roads.

Bids close.		Noted in issue of
2-16	Pavement, etc., Mobile, Ala.	2-16
2-16	Road construction, Harrisburg, Va	2-16
2-16	Grading, Richmond, Va.	2-16
2-17	Paving, Westfield, Mass.	2- 2
2-18	Grading, etc., Franklin, Ind.	2- 2
2-20	Paving, Huntington, W. Va.	2- 2
2-20	Paving, Defiance, Ohio	2- 2
2-20	Pavements, Ludington Mich.	2- 2
2-20	Roads, etc., Boston, Mass.	-26
2-20*	Road construction, Mineola, N. Y.	2- 2
2-20	Road Work, Fort Madison, Ia.	2- 9
2-20	Macadamizing, Adna, Wash.	2- 9
2-20	Grading, etc., Bowling Green, O.	2- 9
2-20	Paving, etc., Corning, Iowa	2- 9
2-20	Regulating, etc., New York, N. Y.	2- 9
2-20	Regulating, etc., Long Island City, N. Y.	2-16
2-20	Grading, etc., Logan, Ohio	2-16
2-20	Grading, Oceanpark, Cal.	2-16
2-20	Pavement, Elkhart, Ind.	2-16
2-21	Grading, Algona, Iowa	2-16
2-21	Laying walks, Joliette, Que.	2-16
2-21	Street improvements, St. Louis, Mo.	2- 9
2-21	Pavements, Columbia, Mo.	2- 9
2-23	Grading, Columbus, Ohio	2- 9
2-23	Paving, Portland, Ore.	1-19
2-23	Street work, Saint Johns, Ore.	2-16
2-24	Paving, Wapakoneta, Ohio	2-16
2-24	Road work, Cincinnati, Ohio	2- 2
2-24	Road improvement, Cincinnati, Ohio	2- 9
2-25	Grading, Lisbon, Ohio	2- 9
2-27	Highways, Albany, N. Y.	2- 9
2-27	Paving, etc., Lakewood, Ohio	2- 9
2-27	Paving, Atlantic City, N. J.	2- 2
2-27	Road oil, Boston, Mass.	2-16
2-28	Paving, Newbern, N. C.	2- 9
2-28	Walks, etc., Fort Niagara, N. Y.	2- 9
3- 1	Highway imprvts., Portland, Ind.	2- 9
3- 1*	Macadam road, Madison Barracks, N. Y.	2- 2
3- 1*	Asphalt, Winnipeg, Man.	1-26
3- 1	Paving, Muncie, Ind.	2-16
3- 1	Paving, etc., Norfolk, Va.	2-16
3- 4	Paving, Sweet Water, Tex.	2-16
3- 6	Road construction, Rockville, Ind.	2-16
3- 6	Road construction, Jeffersonville, Ind.	2-16
3- 6	Stone roads, Fowler, Ind.	2-16
3- 6	Road construction, Spottsylvania, Va.	2-16
3- 6	Road construction, Huntington, Ind.	2-16
3- 9	Cement, Savannah, Ga.	2-16
3- 9	Road construction, Jackson, Miss.	2- 9
4- 1	Asphalt, Logansport, Ind.	2-16

Miscellaneous.

Bids close.		Noted in issue of
2-17	Pipe, Spokane, Wash	2- 9
2-17	Reinforcement material, Panama, (U. S. Poss.)	2- 2
2-17	Crushed stone, Boston, Mass.	2- 2
2-17	Ditches, Clay Center, Kan.	2-16
2-18	Ditch, Frankfort, Ind.	2-16
2-18	Drainage ditches, Newton, Ill.	2-16
2-18	Steel tug, Vancouver, B. C.	2- 2
2-18*	Storehouse, Fort H. G. Wright, N. Y.	1-26
2-18	Ditches, Columbus, Ohio	2- 9
2-20	Patrol vessel, Egypt, (Foreign)	2- 9
2-20	Ditches, Hallock, Minn	2- 9
2-20	Lock and dam, Cincinnati, Ohio	1-26
2-20	Wh'f extension, St. Fauville, Que	2- 2
2-20	Fire wagon, Helena, Mont.	2- 2
2-20	Broken stone, New York, N. Y.	2- 9
2-20	Dredging, New York	2-16
2-20	Vaults, Washington, D. C.	2-16
2-21	Steel, brass, etc., Washington, D. C.	2-16
2-21*	Structural steel fabrication, New Orleans, La.	1-26
2-21	Ditches, Fairmont, Minn	2- 9
2-21	Ditch, Warren, Minn	2- 9
2-22	Conduits, Winnipeg, Man.	2- 9
2-22	Railway, Italy (Foreign)	2- 9
2-22	Steel tramway plates, Australia (Foreign)	12- 8
2-22	Brass goods and iron pipe, Vancouver, B. C.	2-16
2-23	Lumber, trap rock, New York	2-16
2-23	Picket fences, New York	2-16
2-23	Repairs to lawn mowers, pipe fences, New York	2-16
2-23	Road gravel, mould, New York	2-16
2-23	Bath-house, Winnipeg, Man.	2-16
2-23	Telephone material, Brazil (Foreign)	2- 2
2-23	Ditch, Albert Lea, Minn.	2- 9
2-24*	Fire escapes, White Plains, N. Y.	2- 9
2-24	Lock gate recess covers, Panama, (U. S. Poss.)	2- 2
2-24	Levees, dredging, Oakland, Cal.	2-16
2-25	Machinery for gate valves, etc., Panama (U. S. Poss.)	1- 5
2-25	Ordnance storehouse, Fort Constitution, N. H.	2- 9
2-27	Field wire, Washington, D. C.	2-16
2-27	Fire apparatus, New York	2-16
2-28	Sand, Leavenworth, Kan	2- 9
2-28	Elec. pumping machinery, Australia (Foreign)	12-29
2-28*	Locktender's dwelling, Cincinnati, Ohio	2- 2
3- 1	Asphalt, Winnipeg, Man.	2- 2
3- 1*	Breakwater, etc., Milwaukee, Wis.	2- 2
3- 1	Bath house, Hot Springs, Ark	1-12
3- 1	Ventilating apparatus, So. Africa (Foreign)	1-19
3- 2	Levees, Floodgates, Brenham, Tex	2- 9
3- 2	Railroad work (Railways)	2-16
3- 3	Retaining wall, Cincinnati, Ohio	2-16
3- 3	Cement, Leavenworth, Kan	2-16
3- 3	Motor car for Tramway, Winnipeg, Man.	2-16
3- 3	Metal vault linings, etc., New York	2-16
3- 6	Granite steps, Los Angeles, Cal.	2-16
3- 6	Elevator, Los Angeles, Cal.	2-16
3- 6	Steel dredger chains, Argentine Republic (Foreign)	2- 9
3- 6	Vacuum cleaning system, Youngstown, Ohio	2- 9
3- 7	Ice piers, Cincinnati, Ohio	2- 2
3- 7	Storehouse, Rock Island, Ill.	2-16
3- 7	Ferryboat, Boston, Mass.	2-16
3- 8	Wharf, Ottawa, Ont.	2-16
3-13	Steel ceilings, Columbus, Ohio	2-16
3-14	Roofs, etc., Des Moines, Ia.	2-16
3-14	Roof, Des Moines, Ia	2-16
3-14*	Pontons, Rock Island, Ill.	2-16
3-14	Wireless telegraphy installation, Australia (Foreign)	1-19
3-14	Elec. light plant, Roumania (Foreign)	2- 9
3-14	Torpedo boats, Washington, D. C.	2- 9
3-15*	Tunnel, Bonanza, Colo.	2- 9
3-15	Mooring stones, Portland, Me.	2- 9
3-15*	Dredging, rock removal, New York	2-16
3-16	Ditch, etc., Rector, Ark.	1-26
3-16*	Additions to storehouse, Fort Strong, Mass.	2-16
3-17	Motor trucks, Toronto, Ont.	2-16
3-24*	Rock railway material, Panama, (U. S. Poss.)	1-26
3-25	Railroad cars, Chile (Foreign)	2-16
3-30	Dams, etc., Panama (U. S. Poss).	1-19
4- 1	Bridge, Spain (Foreign)	2- 2
4- 1	Cruisers, destroyers, Ottawa, Ont	2- 9
4- 3	Copper roof, Franklin, Ind.	2-16
4-20	Hospital, etc., (plans and designs) Argentine Republic (Foreign)	1-12
8- 1	Designs, etc., for monument, Cincinnati, Ohio	2- 9

Examinations.

Examination date.		Noted in issue of
2-23	Aid in Anthropology, Washington, D. C.	1-26
2-23	Editorial Clerk, Wash., D. C.	2- 9
3- 8	Civil Engineer, Wash., D. C.	2- 9

TOWNSITE.—Merced, Cal.—Wilbur David Cook, Wright and Callender Bldg., Los Angeles, is preparing plans for a new townsite to be laid out nine miles east of Merced, Cal., on the Atchison, Topeka & Santa Fe R. R. by the J. Harvey McCarthy Co. and the Pioneer Investment & Trust Co. The plans include a 170-ft. boulevard from the railway station to a city hall square. Arthur H. Stibolt will be the architect for the buildings.

ROCK CRUSHER, ETC.—Redlands, Cal.—The Development & Securities Co., of Longbeach, Cal., has purchased a 200-acre site between Redlands and Highlands on the Atchison, Topeka & Santa Fe R. R. upon which to construct a rock-crusher and stone works. Estimated cost, $100,000. O. E. Cook is Pres.; C. R. Rollins, Mgr., Longbeach, Cal.

GRAIN ELEVATOR.—San Francisco, Cal.—Bids were received on Feb. 2 by the State Board of Harbor Commissioners for the construction of an electric grain elevator on Section 3 of the seawall. The lowest bid was that of W. E. Keller, at $13,500. The awarding of the contract was held in abeyance until the Board could advertise for a bidder for the lease of the elevator, who would also agree to furnish money for its construction. The lease would be given for a period not exceeding 15 years.

SALE OF DREDGING PLANT.—Montreal, Que.—Bids will be received by F. W. Sharp, Chartered Accountant, Curator, Power Bldg., Montreal, until Feb. 22, for the sale of a dredging plant.

WHARF.—Ottawa, Ont.—Bids will be received until Mar. 8 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for the construction of a wharf at Le Petit, Que. Plans and specifications from A. R. Decary, Dist. Engr., Post-Office Bldg., Quebec.

BREAKWATER.—Port Stanley, Ont.—H. J. Lamb, District Engr., of London, Ont., has been instructed by the Dominion Government to prepare plans for an outer breakwater 1,200 ft. long at Port Stanley. The sum of $60,000 has been appropriated for the work this year, which will commence in the spring.

MOTOR TRUCKS.—Toronto, Ont.—Bids will be received until March 17 by the Postmaster-General, Dominion of Canada, Ottawa, Ont., for the manufacture and delivery of one or more motor trucks, five of which may be required, for use in the conveyance of Royal mails at Toronto. Specifications and all information may be obtained from the Chief Post-Office Inspector, Room 1, Post Office Bldg., Toronto, or from G. C. Anderson, Supt. Mail Contract Branch, Ottawa.

MOTOR CAR FOR TRAMWAY.—Winnipeg, Man.—Bids will be received until Mar. 3 by the Board of Control, M. Peterson, Secy., for the manufacture and delivery of a motor car for use on standard gage railway track. Specifications from Smith, Kerry & Chace, Carnegie Library Bldg., Winnipeg.

BATH-HOUSE.—Winnipeg, Man.—Bids will be received until Feb. 23 by the Board of Control, M. Peterson, Secy., for the erection of a public bath-house in Selkirk Park. Plans and specifications from William Bruce, Arch., 222 McDermott Ave., Winnipeg.

BRASS GOODS AND IRON PIPE.—Vancouver, B. C.—Bids will be received by William McQueen, City Clk., until Feb. 22, for the supply of brass goods and galvanized iron pipe, delivery to be made in June.

INDUSTRIAL NOTES.

THE GEORGE WHITING CO., of Chicago, formerly located at 1417 West North Ave., moved their office and works on Feb. 1, to 1701-1719 Elston Ave., where they will have improved facilities for working.

THE PAWLING & HARNISCHFEGER CO., of Milwaukee, builders of cranes, hoists, etc., have opened a branch office at 533 Baronne St., New Orleans, under the management of Mr. T. W. Waddell.

MR. ORRIN E. STANLEY, M. Am. Soc. C. E., formerly City Engineer of Pierre, S. Dak., and more recently Assistant Engineer for the Oregon Ry. & Navigation Co., has opened an office for the practice of municipal, railway and topographical engineering in the Chamber of Commerce Bldg., Portland, Ore.

MR. GEORGE C. PALMER, formerly Vice-President, has been made President of the Alberger Pump Co. and the Alberger Condenser Co., succeeding the late L. R. Alberger. Mr. Palmer is succeeded as Vice-President by Mr. D. H. Chester in the Alberger Condenser Co., and by Mr. W. S. Doran in the Alberger Pump Co.

THE McCLINTIC-MARSHALL CONSTRUCTION CO., manufacturers and erectors of steel buildings and bridges, has opened an office in the Morris Bldg., Philadelphia, in charge of Mr. C. H. Chubbuck, Contracting Engr. This company also has contracting offices in New York, Pittsburg, St. Louis, Chicago, San Francisco and Columbus, Ohio.

MR. FREDERICK G. CLAPP will now specialize in examining and reporting on coal in addition to oil, gas and water propositions as heretofore. Mr. C. V. Gould, for 14 years coal expert in England and America, will take charge of this branch of the work. The general offices will be maintained at 331 Fourth Ave., Pittsburg, Pa.

MR. HENRY WIDMER, 731 Union St., New Orleans, has been appointed sales agent by the Garwood Electric Co., for the State of Louisiana, the southern half of Mississippi, and all territory within a radius of 50 miles of the city of Mobile, Ala. Mr. Milton S. Nettleton, 29 College St., New Haven, Conn., has been appointed agent for New Haven, and the surrounding territory.

THE DUQUESNE STEEL FOUNDRY, at Kendal Station, have been using oil fuel in two of their open-hearth furnaces with Tate, Jones & Co., Inc.'s equipment, for several years. They are now abandoning the use of natural gas and using oil exclusively, and have awarded the contract to Tate, Jones & Co., for the equipment of their last and third furnace with the well-known Kirkwood system.

THE BOSTON & MAINE R. R. has recently placed an order for 50 large passenger engines and 50 other locomotives, at a cost of $1,815,000; also for 300 passenger equipment cars, at $2,600,000. It is the intention of the railway to purchase for use in the Hoosac Tunnel, 1,500,000 ties, at a cost of $915,000; 41,000 tons of rails at a cost of $1,500,000, and 103,000 joints at a cost of $170,325.

MR. HOWARD T. WALSH has been appointed manager of the London office by the Sullivan Machinery Co. Mr. J. C. West, Sales Engr., at the company's general offices in Chicago for the past ten years, replaces Mr. Walsh as Pacific Coast Manager in the San Francisco office, at 461 Market St. The company has also opened a branch office in the Hutton Bldg., Spokane, Wash., under the management of Mr. Austin Y. Hoy.

MR. CHARLES C. HOPKINS has opened an office in the Cutler Bldg., Rochester, N. Y., and will continue in civil engineering practice as consulting, designing and supervising engineer in the specialties of the firm of Knight & Hopkins. Attention will also be given to masonry, foundations and allied work. Mr. Hopkins and Mr. Charles W. Knight, of Rome, N. Y., will still be associated, that clients may benefit by their combined engineering practice.

TRADE PUBLICATIONS.

STEAM-JET BLOWERS AND EXHAUSTERS.—Schutte & Koerting Co., Philadelphia, Pa. Catalog 4, Section A. Paper; 8 × 11 ins.; illustrated.

This Section A of Catalog 4 discusses the use of steam-jet apparatus for moving air and gases. These jets are used as blowers or exhausters and are divided into two classes: (1) machines for overcoming low counter-pressure of rarefaction of ½ to 6 ins. of water, termed "blowers" and "ventilators," as they handle large volumes; and (2) those for overcoming high counter-pressure up to one-seventh the steam pressure available, or for exhausting against a high rarefaction of from 10 to 25 ins. of mercury. The dimensions of apparatus and descriptions of various uses are given.

HEAD-GATES AND HEAD-GATE LIFTS.—C. D. Butchart, 501 Mercantile Bldg., Denver, Colo. Paper; 6 × 9 ins.; illustrated.

A number of well-illustrated bulletins with prices and dimensions have here been bound together in neat form. The bulletins describe a considerable range of rectangular and circular steel head-gates of lift, revolving and shear types, together with frames; also rack, spur-geared, bevel-geared and plain wheel lifts. Some of the devices illustrated and described are covered by patents issued in the years 1905 and 1909, inclusive, and all the apparatus is grouped under the general title, "Northwestern Head-Gates and Head-Gate Lifts." Some other supplies for water-works and irrigation purposes are included, chiefly vitrified and riveted steel pipe. An "automatic discharge water elevator" is also listed. This elevator consists of buckets mounted on sprocket chains driven by steam or gasoline engines or by horsepower.

VOLTAGE REGULATORS.—General Electric Co., Schenectady, N. Y. Bulletins 4602 and 4793. Paper; 8 × 10½ ins.; illustrated.

The first bulletin describes an automatic regulator for direct-current generators, designed to maintain a steady voltage at the generator terminals, irrespective of fluctuations in load, speed or line drip. These regulators control the voltage by opening and closing a shunt circuit across the field rheostat of the generator.

The second bulletin illustrates and describes a system for controlling the voltage on alternating-current systems. By the plans proposed the generator voltage would be controlled by a potential regulator so as to maintain a constant voltage at the bus or outlet independently of changes in the load. Various feeders from the substation would each be controlled by feeder regulators arranged so as to automatically compensate for the drop in that feeder due to varying loads on it. This bulletin gives only a general exposition of the system.

ELECTRIC LIGHTING.—General Electric Co., Schenectady, N. Y. Bulletins 3004, 3006, 4766, 4769, 4777, 4778, 4780 and 4781. Paper; 8 × 10½ ins.; illustrated.

The first of these pamphlets is illustrated in color, showing various designs of small decorative lamps for use with set pieces of artificial shrubs, trees, etc. The second is a reprint of a paper before the National Electric Light Association on "Luminous and Flame Arcs vs. Open and Enclosed Carbon Arcs for Street Illumination." In the third bulletin the tantalum filament incandescent lamp is described as made for 100 to 250-volt circuits. The cost and efficiency of these lamps are compared with figures for the carbon and metallized filament lamps.

Bulletin 4769 is entitled "Train Lighting with Mazda and Tantalum Lamps." The principal features outlined are the strength of the tantalum filament and the flexible support of the tungsten filament, which renders them capable of withstanding the jars and shocks of railway service.

Bulletin 4777 is largely a compilation of illustrations of exteriors and interiors of modern buildings lighted by tungsten and tantalum lamps. There are also a few data relative to the design of such installations.

Bulletin 4778 discusses the old type of carbon-filament lamp which is still being made to a considerable extent. These lamps are now rated in total watts consumed, like the metallized, tantalum and tungsten lamps. The old rating by candle power has been abandoned.

Bulletin 4780 describes the metallized-carbon filament "gem" lamp for circuits of 100 to 130 volts, and in sizes consuming from 40 to 100 watts. These lamps have a higher economy than the ordinary carbon type, but are less efficient than the tantalum or tungsten types.

In Bulletin 4781 are many illustrations of the use of series tungsten lamps for outdoor lighting. The various styles of fixtures used are illustrated, and there are considerable data on the characteristics of the lamp and on comparisons of different outdoor lighting systems.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 82.

WATER-WORKS PLANT EQUIPMENT.

Spring Lake, N. J.

Sealed proposals will be received by the Council of the Borough of Spring Lake, Monmouth County, N. J., at the office of the Borough Clerk, until two o'clock P. M., Friday, March 10th, 1911, and will be publicly opened and read immediately thereafter, for furnishing, delivering, and erecting the complete mechanical equipment of an Artesian Water Works Plant, comprising the following:

Brick Pumping Station, with Boiler House annexed.
Radial Brick Stack and Foundation.
Concrete Reservoir.
Concrete Building and Machinery, Foundations and Floors, etc.
Five Artesian Wells.
Two Triple Expansion, Direct-Acting Pumping Engines.
One Duplex Cross-Compound Steam, Two-Stage Air Compressor.
One Surface Condenser, with combined air and circulating Pump.
One Boiler Feed Pump.
Two Feed Water Heaters.
Three Return Tubular Boilers, and Stack Breeching.
Suction and Discharge Mains to Pumps and Reservoir.
Piping Seven Artesian Wells.
Conduit from Wells to Reservoir.
Removal and resetting old Boiler.
Removal and resetting old Air Compressor.
Steam and Exhaust Connections to Boilers and Machinery.
One Simplex Water Meter.

Each proposal must be accompanied by a certified check, to the order of W. W. Trout, Treasurer, in the sum of 5%, amount of each bid, or same will not be considered. A Bond in the sum of 50% of the contract price will be required for the faithful performance of the contract.

The Council reserves the right to reject any or all bids, or to accept any bid, should it deem it to be for the best interests of the Borough of Spring Lake to do so.

O. H. BROWN, Mayor,
E. V. PATTERSON, Borough Clk.,
Borough of Spring Lake, N. J.
JOS. L. SWEIGARD, Engineer,
Betz Building, Philadelphia, Pa.

WAR DEPARTMENT, Constructing Quartermaster's Office, U. S. A., 263 Summer St., Boston, Mass., Feb. 15, 1911.—Sealed proposals, in triplicate, will be received at this office until one o'clock P. M., March 15, 1911, and then opened, for the construction, plumbing, heating, electric wiring and fixtures of 1 Qrs. for Co. Officers, 2 Qrs. for N. C. Officers, 1 Qrs. for Field Officer, 1 Addition to Post Hospital; for the construction, plumbing, electric wiring and fixtures of 1 Fire Station; and for the construction complete of 1 Storehouse and Shop Bldg., at Fort Andrews, Mass. Plans can be seen, specifications, blank forms and full information obtained at this office. Deposit of $25.00 required for plans and specifications. Plans and specifications may also be seen at the office of the Chief Quartermaster, Dept. of the East, Governor's Isl., N. Y. Harbor. The United States reserves the right to reject any or all proposals. Envelopes should be endorsed "Proposals for Constn. of Bldgs., Fort Andrews, Mass.," and addressed to Capt. T. A. M. MILLER, Constructing Quartermaster, S. A., Boston, Mass.

ELECTRICAL APPARATUS.

OFFICE OF SALT RIVER VALLEY WATER USERS' ASSOCIATION.

Phoenix, Arizona, Feb. 11, 1911.

Sealed proposals will be received at the office of the Salt River Valley Water Users' Association at Phoenix, Arizona, until Tuesday, March 14th, 1911, for furnishing complete f. o. b. cars shipping point, electrical apparatus for use in a plant to be built at the junction of the South and Consolidated canals of the Salt River Project, Arizona. Particulars may be obtained by application to the office of the Salt River Valley Water Users' Association or the office of the United States Reclamation Service, Phoenix, Arizona.

SALT RIVER VALLEY WATER USERS' ASSOCIATION.
Per CHAS. A. VAN DER VEER,
Secretary.

HYDRAULIC TURBINES.

OFFICE OF SALT RIVER VALLEY WATER USERS' ASSOCIATION.

Phoenix, Arizona, Feb. 11, 1911.

Sealed proposals will be received at the office of the Salt River Valley Water Users' Association at Phoenix, Arizona, until Tuesday, March 14th, 1911, for furnishing complete f. o. b. cars shipping point two hydraulic turbines with accessories for use in a power plant to be constructed at the junction of the South Canal and the Consolidated Canal, Salt River Valley, Arizona. Particulars may be obtained by application to the office of the Salt River Valley Water Users' Association or the office of the United States Reclamation Service, Phoenix, Arizona.

SALT RIVER VALLEY WATER USERS' ASSOCIATION,
Per CHAS. A. VAN DER VEER,
Secretary.

Situations Open

MANAGER WANTED—For established large land and water company in Northern California; farming and leasing land, and selling water for irrigation and power and maintaining ditches and flumes in mountainous country; applicants to be at least 30 years old, used to responsibility, of good general business experience and thoroughly reliable; engineer's training preferred; salary $200 per month and house rent, with prospect of increase dependent on results; highest reference and surety company bond required; applications treated as confidential; to be considered must contain all information, including references. Address P. O. Box 2223 M., Boston. 7-1t

WANTED—An Elevator Inspector in New York City by a Liability Insurance Company. Address "S. C. 7," Engineering News, New York. 7-1t

Miscellaneous Wants

EXPERIENCED municipal and railroad engineer desires position as representative or manager for contracting firm, or kindred business; capable estimator and mechanical experience. Address "A. 2," Engineering News, New York. 7-1t

WANTED

Standard Gauge Crane

5 to 10 tons to handle ¾-yd. clam shell bucket. Electric equipment, not steam. Address "R. C. 7," Engineering News, New York. 7-1t

FOR SALE

FOR SALE.

15-ton Browning and 17-ton Industrial

CRANES

like new and up to date. Also 75-KW. Direct Connected set. F. L. HALL, 2 McGraw Bldg., Detroit, Mich. 7-1t

FOR SALE.

Brand New 15 Ton

Locomotive Crane

Brown Hoist.
Self propelled, standard gauge.
J. W. BUZZELL, 507 Park Ave., East Orange, N. J. 7-1t

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